

Midlands Area Base Labor Market Analysis



South Carolina
Department of
Commerce
Labor Market Information



October 2008

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EXECUTIVE SUMMARY

Population

The Midlands area's population growth has been faster than the state's.

Future population growth is expected to continue to be slightly above the state rate.

The Midlands area attracts workers predominantly from within its borders.

Almost two thirds live in Richland and Lexington counties.

Income

Per capita income growth has been below the state and national rates.

The Midlands area's per capita income remains between the national and state levels.

The Midlands area's average wages are higher than those of the state for most occupational groups.

Education

The number of degrees awarded by area post-secondary institutions has increased substantially.

The greatest increase has been in the healthcare field.

Occupations

The following occupational groups are expected to have faster growth in the Midlands area than in the state:

Healthcare practitioners and technical, healthcare support and personal care and service.

Requirements for the Midlands area's workers are expected to grow in the following levels of education and experience:

Work experience in a related field, postsecondary vocational award, associate's degree, bachelor's degree and master's degree or higher.

Industry

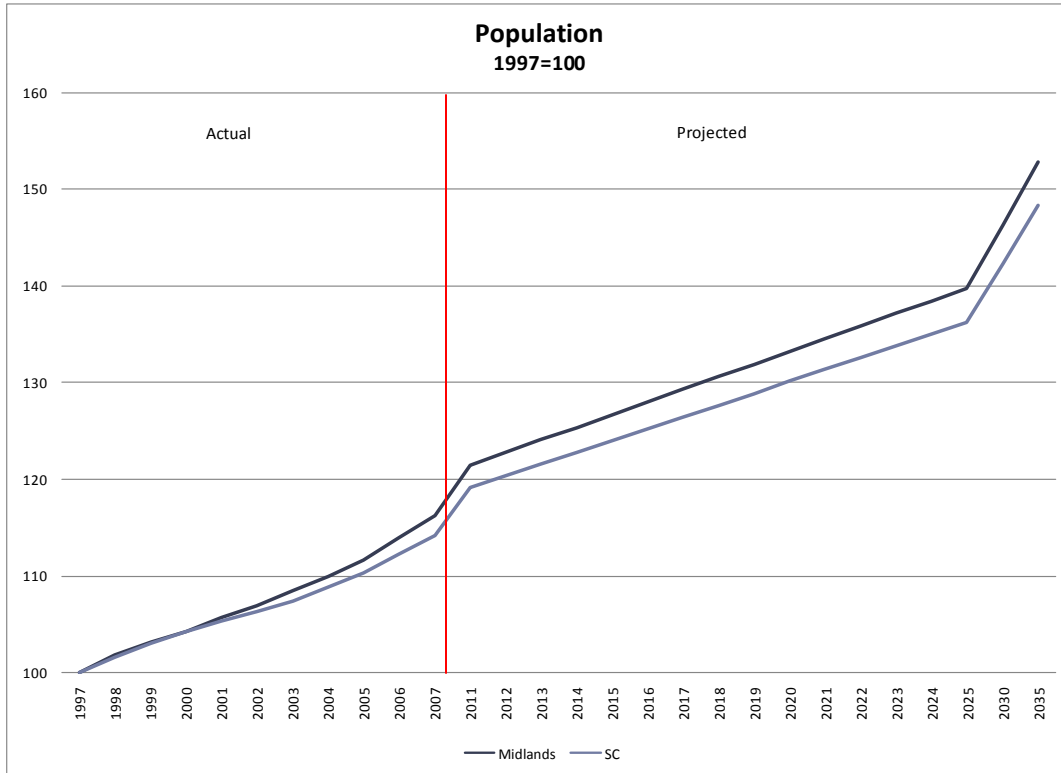
Sectors rated as having high potential in various parts of the Midlands area are as follows:

Construction of buildings; heavy and civil engineering construction; forestry and logging; paper manufacturing; machinery manufacturing; merchant wholesalers, durable goods; truck transportation; warehousing and storage; ambulatory health care services; telecommunications; and professional, scientific and technical services.

POPULATION

Growth

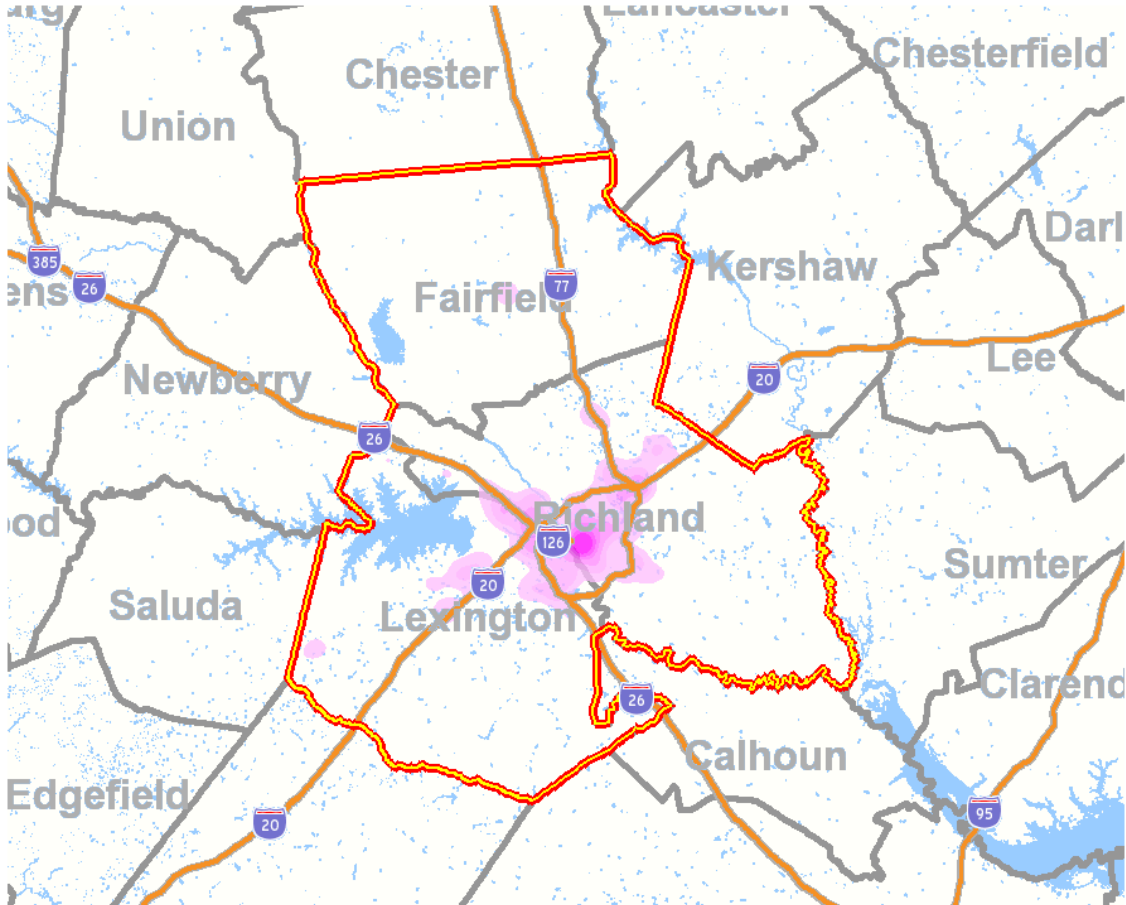
The Midlands area's 2007 population was 624,337. The area population has grown by 16.2% since 1997, compared to 14.2% for South Carolina. Future population growth is expected to continue to be slightly higher than state levels.



Source: U.S. Census Bureau (estimates) and SC Budget & Control Board/Office of Research and Statistics (projections).

LABORSHED

The map below shows where Midlands area workers come from (in 2006, latest available data). The Midlands area draws over two thirds of its workers from Richland and Lexington counties.



Source: U.S. Census Bureau, Local Employment Dynamics.

Characteristics of Workers

Age of Workers:

30 or younger	25.7%
31 to 54	57.8%
55 or older	16.6%

Earnings of Workers:

\$1,200 per month or less	24.2%
\$1,201 to \$3,400 per month	46.4%
More than \$3,400 per month	29.4%

States Where Workers Live:

South Carolina	98.7%
North Carolina	0.6%
All other locations	0.7%

Counties Where Workers Live:

Richland, South Carolina	38.0%
Lexington, South Carolina	29.5%
Kershaw, South Carolina	2.9%
Charleston, South Carolina	2.2%
Greenville, South Carolina	2.1%
Fairfield, South Carolina	1.9%
Aiken, South Carolina	1.7%
Orangeburg, South Carolina	1.6%
Spartanburg, South Carolina	1.6%
Sumter, South Carolina	1.5%
All Other Locations	17.1%

Cities Where Workers Live:

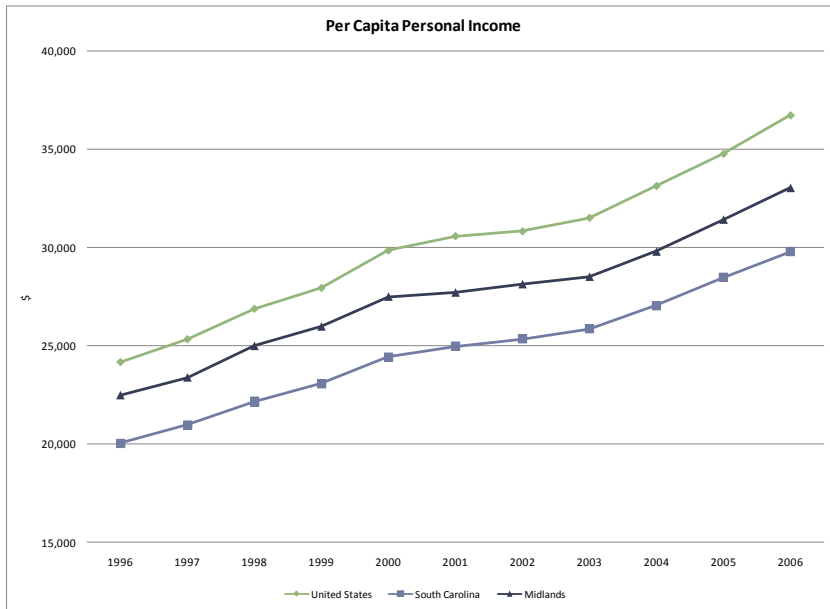
Columbia, South Carolina	10.8%
St. Andrews, South Carolina	3.0%
Seven Oaks, South Carolina	2.3%
Lexington, South Carolina	1.7%
Cayce, South Carolina	1.6%
Irmo, South Carolina	1.6%
Dentsville, South Carolina	1.6%
West Columbia, South Carolina	1.5%
Forest Acres, South Carolina	1.5%
Red Bank, South Carolina	1.4%
All Other Locations	73.0%

Source: U.S. Census Bureau, Local Employment Dynamics.

INCOME

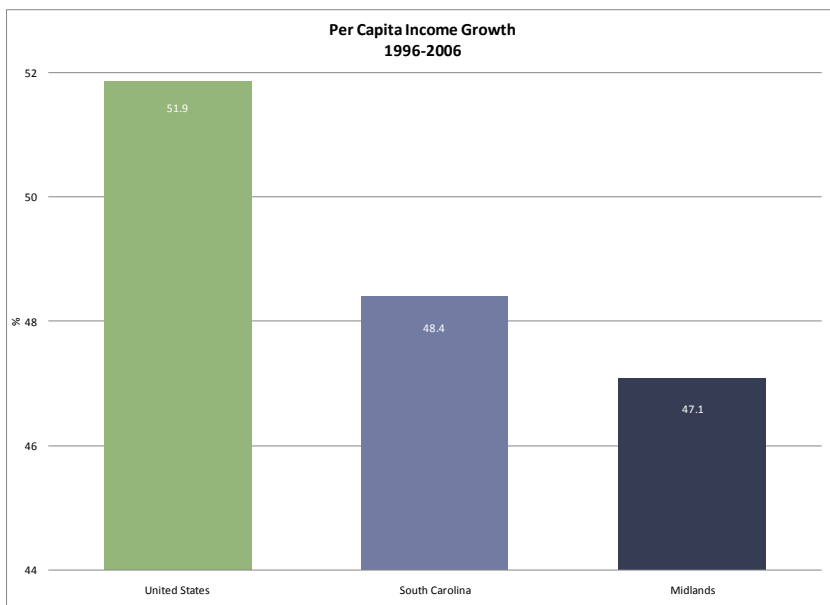
Per Capita Income

The Midlands area's per capita income increased fairly steadily from 1996 to 2006 but remained between the state and national averages.



Source: U.S. Department of Commerce, Bureau of Economic Analysis.

As reflected above, the Midlands area's per capita income growth was below both South Carolina's and the United States'.



Source: U.S. Department of Commerce, Bureau of Economic Analysis.

Wages by Industry

The Midlands area's average wages are above those of South Carolina (\$705 vs. \$680 in 2007). Average wages were up 19% in the Midlands area over the past five years, compared to 18% for the state. All major sectors except information and arts, entertainment and recreation had growth over the past five years, led by real estate and rental and leasing.

Industry	NAICS Code	2007 Average Weekly Wage (\$)	2002 Average Weekly Wage (\$)	% Change
Total, Private and Government		705	592	19
Construction	23	758	601	26
Manufacturing	31-33	860	748	15
Retail Trade	44-45	482	447	8
Transportation and Warehousing	48-49	686	565	21
Information	51	769	821	-6
Finance and Insurance	52	1,008	801	26
Real Estate and Rental and Leasing	53	700	539	30
Administration & Support & Waste Management & Remediation Services	56	436	363	20
Arts, Entertainment, and Recreation	71	257	261	-1
Accommodation and Food Services	72	245	215	14
Other Services (Except Public Administration)	81	504	442	14
Federal Government		1,091	866	26
State Government		744	639	17
Local Government		707	558	27

Source: U.S. Department of Labor, Bureau of Labor Statistics, Quarterly Census of Employment and Wages.

Wages by Occupation

Average wages in the Midlands area are higher than South Carolina's in most major occupational groups.

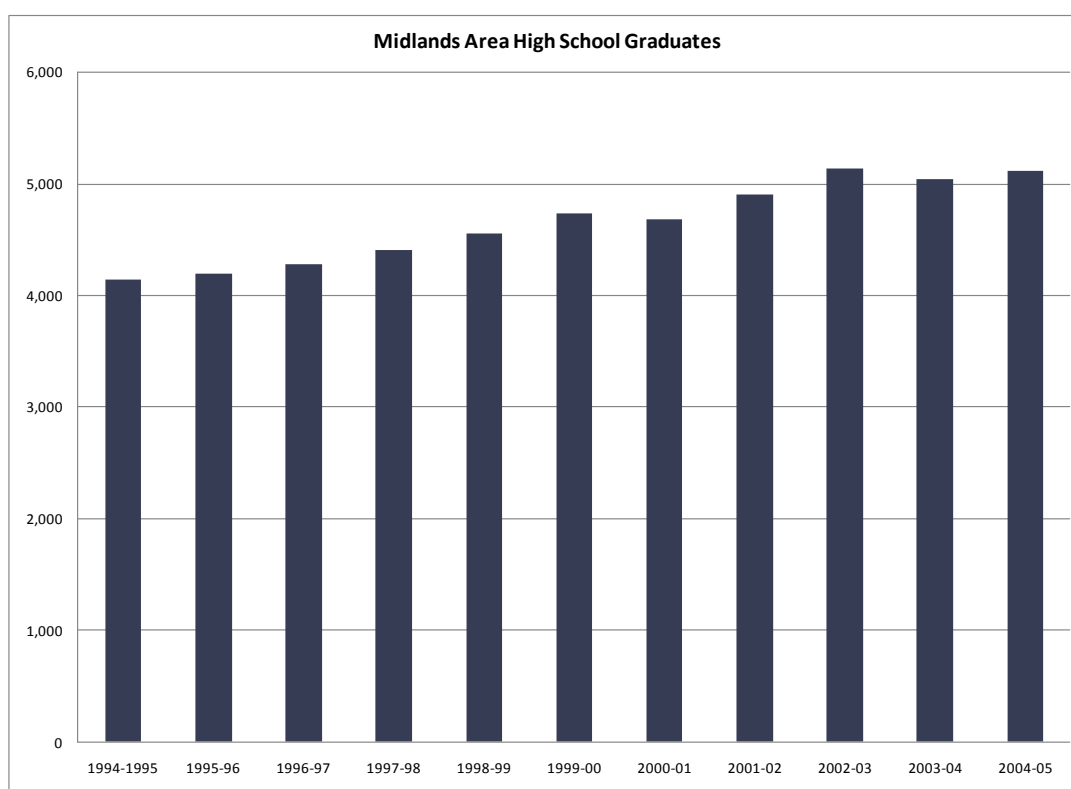
Occupation	2007 Midlands Area Median Hourly Wage (\$)	2007 SC Median Hourly Wage (\$)
Management occupations	31.34	28.78
Business and financial operations occupations	22.48	20.28
Computer and mathematical science occupations	28.32	26.20
Architecture and engineering occupations	28.16	30.22
Life, physical and social science occupations	22.92	22.76
Community and social services occupations	14.34	13.18
Legal occupations	32.56	30.68
Education, training and library occupations	27.36	24.42
Arts, design, entertainment, sports and media occupations	13.82	12.66
Healthcare practitioners and technical occupations	30.80	30.64
Healthcare support occupations	11.55	10.55
Protective service occupations	13.55	13.87
Food preparation and serving related occupations	8.05	7.90
Building and grounds cleaning and maintenance occupations	8.65	8.42
Personal care and service occupations	8.78	8.39
Sales and related occupations	14.79	13.48
Office and administrative support occupations	14.11	13.22
Farming, fishing, and forestry occupations	12.10	13.07
Construction and extraction occupations	16.92	16.51
Installation, maintenance and repair occupations	17.70	16.88
Production occupations	14.64	15.21
Transportation and material moving occupations	12.69	12.94

Source: Economic Modeling Specialists, Inc.

EDUCATION

High School Graduates

From 1995 to 2005 (latest data available), the number of Midlands area students receiving high school diplomas increased by 971—or 23%. In South Carolina, the number of high school diplomas increased 9% from 1995 to 2005. A total of 5,109 people received high school diplomas in the Midlands area in 2005. The Midlands area had 1,118 more 12th grade students in 2004-05 than in 1994-95. Also, the number of students not passing the exit exam who received a certificate of completion instead of a diploma increased by 247 (to 329) over the 1995-2005 period.



Source: National Center for Education Statistics.

Higher Education Graduates

Almost 2,000 more students graduated from higher educational institutions in the Midlands area in 2006 than in 1996, an increase of 19%. The greatest numerical increase was in the healthcare field.

Program	1996	2006	Change	% Change
Agriculture, agriculture operations, and related sciences	16	4	-12	-75
Area, ethnic, cultural, and gender studies	19	26	7	37
Biological and biomedical sciences	383	424	41	11
Business, management, marketing, and related support services	1,891	2,175	284	15
Communication, journalism, and related programs	254	450	196	77
Computer and information sciences and support services	219	360	141	64
Construction trades	31	12	-19	-61
Education	1,179	1,142	-37	-3
Engineering technologies/technicians	158	196	38	24
Engineering	289	315	26	9
English language and literature/letters	279	270	-9	-3
Family and consumer sciences/human sciences	97	243	146	151
Foreign languages, literatures, and linguistics	79	70	-9	-11
Health professions and related clinical sciences	1,492	2,041	549	37
Legal professions and studies	369	409	40	11
Liberal arts and sciences, general studies and humanities	780	585	-195	-25
Library science	185	200	15	8
Mathematics and statistics	110	102	-8	-7
Mechanic and repair technologies/technicians	231	407	176	76
Multi/interdisciplinary studies	76	143	67	88
Natural resources and conservation	15	3	-12	-80
Parks, recreation, leisure, and fitness studies	126	256	130	103
Philosophy and religious studies	30	52	22	73
Physical sciences	147	146	-1	-1
Precision production	81	54	-27	-33
Psychology	291	429	138	47
Public administration and social service professions	358	378	20	6
Science technologies/technicians	6	5	-1	-17
Security and protective services	423	378	-45	-11
Social sciences	650	789	139	21
Theology and religious vocations	280	323	43	15
Visual and performing arts	195	341	146	75
TOTAL	10,739	12,728	1,989	19

Source: National Center for Education Statistics (Integrated Post Secondary Education System).

Data for these schools: Aiken Technical College, Allen University, Benedict College, Beta Tech, Central Carolina Technical College, Claflin University, Columbia College, Columbia International University, Lutheran Theological Southern Seminary, Midlands Technical College, Morris College, Newberry College, Orangeburg Calhoun Technical College, South Carolina State University, South University, University of Phoenix-Columbia Campus, University of South Carolina-Aiken, University of South Carolina-Columbia, University of South Carolina-Lancaster, University of South Carolina-Sumter and W L Bonner College

OCCUPATIONS

Occupational Projections

The following occupational groups are projected to grow faster in the Midlands area than in the state:

- Healthcare practitioners and technical
- Healthcare support
- Personal care and service

See **Appendix A** for detailed occupational information.

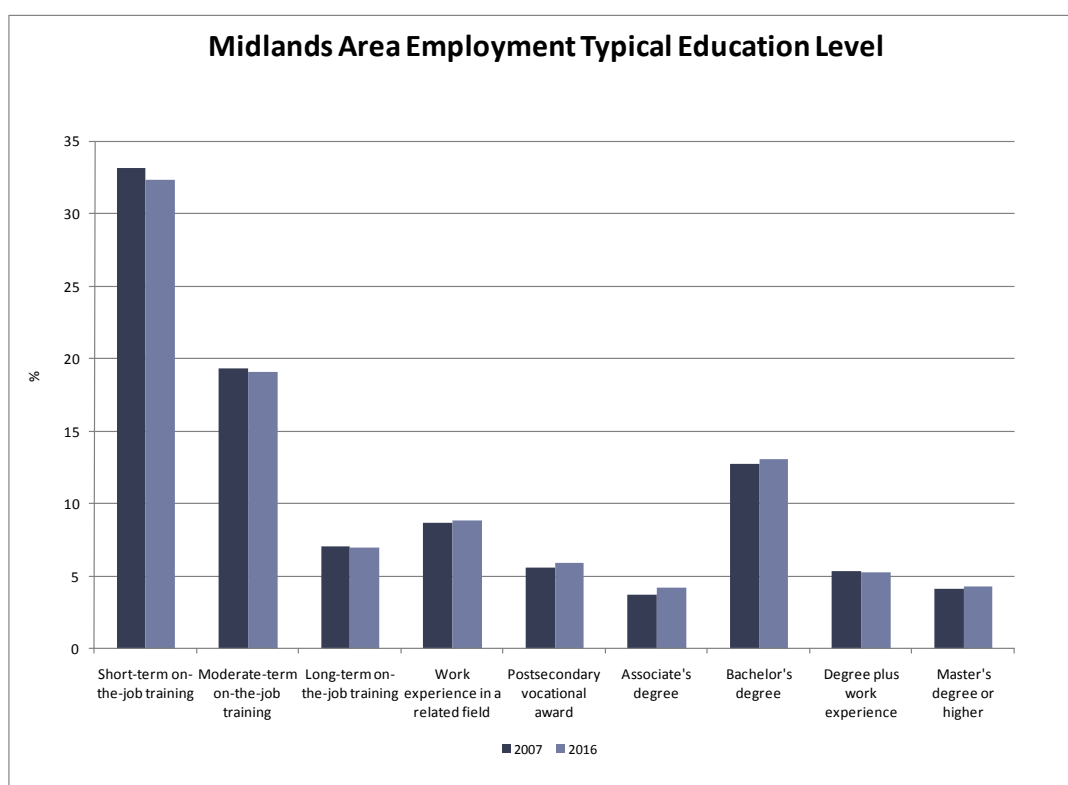
Occupation	2007-2016 Midlands Area Projected Growth (%)	2007-2016 SC Projected Growth (%)
Management occupations	16	17
Business and financial operations occupations	16	22
Computer and mathematical science occupations	20	23
Architecture and engineering occupations	12	15
Life, physical and social science occupations	13	15
Community and social services occupations	11	15
Legal occupations	20	21
Education, training, and library occupations	15	16
Arts, design, entertainment, sports and media occupations	16	17
Healthcare practitioners and technical occupations	29	24
Healthcare support occupations	32	25
Protective service occupations	18	18
Food preparation and serving related occupations	13	13
Building and grounds cleaning and maintenance occupations	20	23
Personal care and service occupations	8	7
Sales and related occupations	16	19
Office and administrative support occupations	9	13
Farming, fishing, and forestry occupations	6	16
Construction and extraction occupations	15	19
Installation, maintenance and repair occupations	14	17
Production occupations	8	10
Transportation and material moving occupations	8	11

Source: Economic Modeling Specialists, Inc.

Occupational Education Requirements

Occupational growth trends show that education and training requirements are generally increasing. This is reflected in the projected growth of occupations such as engineers, business professionals and healthcare practitioners in the Midlands area. Based on employment projections, the Midlands area is expected to see growth in requirements for the following levels of education and experience:

- Work experience in a related field
- Postsecondary vocational award
- Associate's degree
- Bachelor's degree
- Master's degree or higher



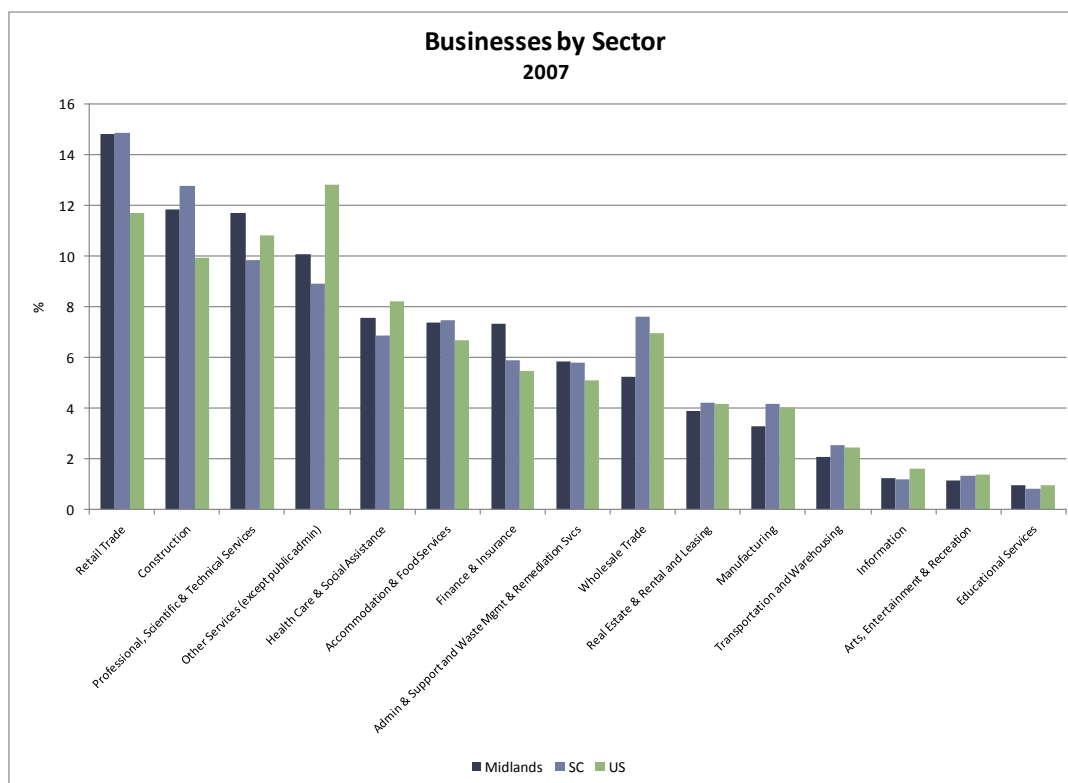
Source: Economic Modeling Specialists, Inc

INDUSTRY

Businesses by Sector

The Midlands area had higher percentages of businesses than South Carolina or the nation in the following sectors:

- Professional, scientific and technical services
- Finance and insurance



Source: U.S. Department of Labor, Bureau of Labor Statistics.

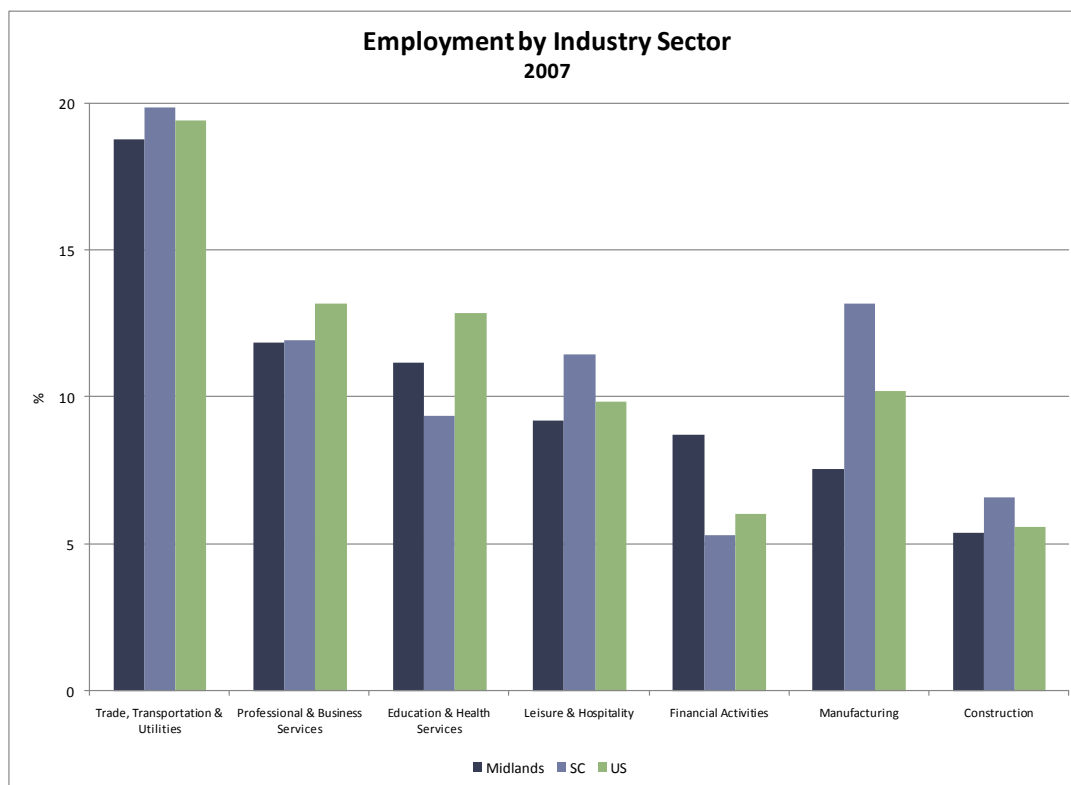
Growth in Number of Businesses

The number of private businesses in the Midlands area fell 7% from 2002 to 2007, compared to a 2% drop for the state.

Because the amount of detailed data varies by county, information for three-digit NAICS code sectors for the Midlands area as a whole is unavailable. Please see county reports for information on growth by detailed industry sectors.

Employment by Sector

Compared to South Carolina and the United States, the Midlands area's employment is more concentrated in financial activities.



Source: U.S. Department of Labor, Bureau of Labor Statistics.

Industry Analysis

Screening Criteria

For each county in the Midlands area, industry sectors with available data were rated on six factors:

- | | |
|------------------------------------|---------------------------------|
| • 2002-2007 employment growth | Competitive effect ¹ |
| • 2002-2007 employment growth rate | Average annual wage |
| • Location quotient ² | Projected growth |

Using those factors, sectors were awarded “stars” based on meeting the following criteria:

- 2002-2007 employment growth (Did the sector add a significant number of jobs?)
- 2002-2007 employment growth rate (Did the sector add jobs at a greater rate than overall job growth?)
- Location quotient of at least 1.25 (Does the sector have a significant concentration in the county?)
- Competitive effect greater than 0 (Did the sector add jobs beyond national growth overall and in the sector?)
- Average annual wage greater than the overall county average (Does the sector pay wages greater than average for the county?)
- Average or above average projected growth (Is the sector expected to add jobs?)

Industries of Note

Based on the analyses for each county in the Midlands area, the following sectors of note were identified (and the counties for which they were significant):

- Construction of buildings (Fairfield, Lexington)
- Heavy and civil engineering construction (Lexington)
- Forestry and logging (Lexington)
- Paper manufacturing (Richland)
- Machinery manufacturing (Lexington)
- Merchant wholesalers, durable goods (Lexington)
- Truck transportation (Lexington)
- Warehousing and storage (Lexington)
- Ambulatory health care services (Lexington)
- Telecommunications (Richland)

¹ *Competitive Effect: based on shift-share analysis; represents the change in employment in the sector in the county after accounting for overall US employment growth and growth/decline in the sector in the US.*

² *Location Quotient: percentage of employment in the sector in the county divided by the percentage of employment in that sector in the US; gives an indication of how concentrated employment in the sector is in the county compared to the US; based on 2007 data.*

- Professional, scientific and technical services (Richland)

See the reports for each county for information about the respective industries of note as well as other sectors in the county.

MOVING FORWARD

The South Carolina Department of Commerce appreciates the opportunity to provide this base analysis of the Midlands area's labor market. We hope that it will help in advancing the progress of the Midlands area's economic development.

What's been done so far?

This analysis identifies the region's assets—both current and future—at a macro level. Labor Market Information (LMI) at the S.C. Department of Commerce developed a Base Labor Analysis report providing an overview of the region's population, industries, occupations, and educational assets. Additionally, these findings were benchmarked against the state and the nation.

What's next?

Because local knowledge is required to interpret and apply the findings appropriately, the Midlands Base Labor Analysis should be used with local stakeholders to identify and define key, targeted industry clusters. Some items to consider when defining these clusters may include the following.

1. *What is the Midlands area's economic base?*

In order for an economy to grow, it must have a base (export) sector that generates wealth from beyond its borders. Industries in the economic base (manufacturing, scientific and technology services, warehouse and distribution, financial services, regional healthcare, etc.) typically provide occupations with higher pay and benefits as well as better human capital development and promotion opportunities. A successful economic base stimulates the development of the non-base sector (housing, schools, retail, restaurants, personal services, etc.). It also propels the local tax base which, in turn, provides support to community services.

2. *What are strategies to assist low-wage citizens in non-base economy jobs?*

Although the economic base is the driver for long-term growth in a region, implementable strategies for developing job opportunities for low-skilled individuals is a priority for community economic well-being. This need must also be kept in mind when defining target industry clusters.

3. *What other factors are vital to the Midlands area and its communities?*

Over and above pure economic considerations, what is important to the citizens of the Midlands area? How does Midlands want to be perceived? What quality of life issues affect Midlands? These questions may impact the types of industries desired for the area.

How Labor Market Information at the S.C. Department of Commerce can help.

Once local stakeholders have identified key industry clusters vital to the future economic development of the region, LMI can provide more in-depth analysis of each of these industries, their occupations, business establishments, and educational requirements.

1. Detailed Industry Analysis

For each identified industry, LMI can develop a detailed analysis of each sector, including employment, projected growth, staffing patterns, location quotients, and employers. Additionally, the analysis will examine the largest, fastest growing, and declining sectors within the industry cluster.

2. Detailed Occupational Analysis

At this point, the occupations—classified by SOC codes—that make up each of the identified industry clusters can be analyzed in detail. This analysis will include employment, average earnings, educational requirements, projected growth, and completers from available local training programs. It will culminate in identifying gaps between the number of occupations required to sustain and advance industry growth and the number of skilled workers (as identified by educational requirements and program completers) available to fulfill these positions.

3. Identification of Implementable Recommendations

LMI will utilize the findings of the analyses to develop a set of implementable recommendations. These may include recommendations to align community college programs with economic development goals along with others. Finally, local knowledge will once again be called upon to review the findings and develop an action plan for the implementation of feasible solutions.

Appendix A: Occupational Projections for Midlands Area

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
11-2011	Advertising and promotions managers	133	143	10	8	1.01	20.72	Degree plus work experience
11-2021	Marketing managers	439	535	96	22	0.88	30.77	Degree plus work experience
11-2022	Sales managers	895	1,041	146	16	1.05	34.14	Degree plus work experience
11-2031	Public relations managers	412	503	91	22	3.26	27.44	Degree plus work experience
11-3011	Administrative services managers	888	1,005	117	13	1.51	25.31	Degree plus work experience
11-3021	Computer and information systems managers	876	1,032	156	18	1.31	39.87	Degree plus work experience
11-3031	Financial managers	1,615	1,910	295	18	1.01	33.37	Degree plus work experience
11-3041	Compensation and benefits managers	222	276	54	24	1.77	29.09	Degree plus work experience
11-3042	Training and development managers	143	181	38	27	1.83	31.24	Degree plus work experience
11-3049	Human resources managers, all other	174	210	36	21	1.18	29.29	Degree plus work experience

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
11-3051	Industrial production managers	345	395	50	14	0.92	38.47	Work experience in a related field
11-3061	Purchasing managers	199	242	43	22	1.22	30.11	Degree plus work experience
11-3071	Transportation, storage, and distribution managers	223	266	43	19	0.92	28.69	Work experience in a related field
11-9011	Farm, ranch, and other agricultural managers	259	260	1	0	0.31	5.87	Degree plus work experience
11-9012	Farmers and ranchers	1,292	1,300	8	1	0.32	5.85	Long-term on-the-job training
11-9021	Construction managers	1,939	2,397	458	24	1.10	25.00	Bachelor's degree
11-9031	Education administrators, preschool and child care center/program	235	241	6	3	0.75	9.27	Degree plus work experience
11-9032	Education administrators, elementary and secondary school	717	795	78	11	1.00	37.54	Degree plus work experience
11-9033	Education administrators, postsecondary	327	359	32	10	0.73	22.03	Degree plus work experience
11-9039	Education administrators, all other	273	300	27	10	1.17	23.11	Degree plus work experience
11-9041	Engineering managers	328	376	48	15	0.72	44.18	Degree plus work experience
11-9051	Food service managers	908	1,159	251	28	0.85	20.47	Work experience in a related field

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
11-9061	Funeral directors	29	22	-7	-24	0.44	36.01	Associate's degree
11-9071	Gaming managers	14	15	1	7	0.49	6.63	Work experience in a related field
11-9081	Lodging managers	230	305	75	33	0.67	25.23	Work experience in a related field
11-9111	Medical and health services managers	797	990	193	24	1.10	34.51	Degree plus work experience
11-9121	Natural sciences managers	43	45	2	5	0.44	40.49	Degree plus work experience
11-9131	Postmasters and mail superintendents	39	42	3	8	0.70	29.11	Work experience in a related field
11-9141	Property, real estate, and community association managers	2,322	3,171	849	37	0.84	11.89	Bachelor's degree
11-9151	Social and community service managers	372	422	50	13	1.03	16.96	Bachelor's degree
11-9199	Managers, all other	2,534	2,934	400	16	0.67	45.40	Work experience in a related field
11-1011	Chief executives	2,674	3,065	391	15	1.01	52.03	Degree plus work experience
11-1021	General and operations managers	5,793	6,174	381	7	1.32	35.59	Degree plus work experience
11-1031	Legislators	364	396	32	9	2.44	8.77	Degree plus work experience

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
13-1011	Agents and business managers of artists, performers, and athletes	50	63	13	26	0.53	7.37	Degree plus work experience
13-1021	Purchasing agents and buyers, farm products	42	46	4	10	1.14	36.04	Work experience in a related field
13-1022	Wholesale and retail buyers, except farm products	290	323	33	11	0.71	24.42	Work experience in a related field
13-1023	Purchasing agents, except wholesale, retail, and farm products	634	704	70	11	0.91	20.44	Work experience in a related field
13-1031	Claims adjusters, examiners, and investigators	1,940	2,126	186	10	2.63	24.89	Long-term on-the-job training
13-1032	Insurance appraisers, auto damage	86	93	7	8	1.27	19.70	Long-term on-the-job training
13-1041	Compliance officers, except agriculture, construction, health and safety, and transportation	665	704	39	6	1.21	19.21	Long-term on-the-job training
13-1051	Cost estimators	417	517	100	24	0.72	22.54	Work experience in a related field
13-1061	Emergency management specialists	63	71	8	13	2.04	19.82	Work experience in a related field
13-1071	Employment, recruitment, and placement specialists	516	564	48	9	1.06	18.34	Bachelor's degree
13-1072	Compensation, benefits, and job analysis specialists	252	300	48	19	0.89	21.19	Bachelor's degree
13-1073	Training and development specialists	768	912	144	19	1.48	22.69	Bachelor's degree
13-1079	Human resources, training, and labor relations specialists, all other	292	352	60	21	0.53	23.84	Bachelor's degree
13-1081	Logisticians	134	167	33	25	0.69	25.72	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
13-1111	Management analysts	2,609	2,975	366	14	1.08	26.72	Degree plus work experience
13-1121	Meeting and convention planners	181	226	45	25	0.87	13.03	Bachelor's degree
13-1199	Business operation specialists, all other	2,098	2,511	413	20	0.84	24.54	Bachelor's degree
13-2011	Accountants and auditors	4,229	5,015	786	19	1.14	21.80	Bachelor's degree
13-2021	Appraisers and assessors of real estate	795	1,090	295	37	0.79	13.00	Postsecondary vocational award
13-2031	Budget analysts	108	118	10	9	0.74	26.49	Bachelor's degree
13-2041	Credit analysts	153	146	-7	-5	0.95	23.74	Bachelor's degree
13-2051	Financial analysts	387	509	122	32	0.48	19.22	Bachelor's degree
13-2052	Personal financial advisors	1,045	1,360	315	30	0.62	16.33	Bachelor's degree
13-2053	Insurance underwriters	400	415	15	4	1.53	23.81	Bachelor's degree
13-2061	Financial examiners	52	53	1	2	0.86	36.98	Bachelor's degree
13-2071	Loan counselors	256	234	-22	-9	2.05	20.24	Bachelor's degree
13-2072	Loan officers	859	818	-41	-5	0.93	27.50	Bachelor's degree
13-2081	Tax examiners, collectors, and revenue agents	83	85	2	2	0.46	25.89	Bachelor's degree
13-2082	Tax preparers	163	162	-1	-1	0.58	14.49	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
13-2099	Financial specialists, all other	304	301	-3	-1	0.85	22.50	Bachelor's degree
15-1011	Computer and information scientists, research	79	96	17	22	0.51	35.38	Doctoral degree
15-1021	Computer programmers	1,393	1,389	-4	0	1.20	29.38	Bachelor's degree
15-1031	Computer software engineers, applications	600	824	224	37	0.47	36.40	Bachelor's degree
15-1032	Computer software engineers, systems software	1,073	1,345	272	25	1.17	35.52	Bachelor's degree
15-1041	Computer support specialists	1,343	1,527	184	14	0.99	19.41	Associate's degree
15-1051	Computer systems analysts	1,411	1,791	380	27	1.17	27.05	Bachelor's degree
15-1061	Database administrators	204	253	49	24	0.71	27.56	Bachelor's degree
15-1071	Network and computer systems administrators	580	719	139	24	0.77	24.66	Bachelor's degree
15-1081	Network systems and data communications analysts	709	998	289	41	1.04	28.45	Bachelor's degree
15-1099	Computer specialists, all other	324	379	55	17	0.61	31.16	Associate's degree
15-2011	Actuaries	43	48	5	12	0.94	39.90	Degree plus work experience
15-2031	Operations research analysts	411	443	32	8	2.81	29.19	Master's degree
15-2041	Statisticians	86	94	8	9	1.73	23.03	Master's degree
17-1011	Architects, except landscape and naval	189	199	10	5	0.52	34.34	Bachelor's degree
17-1012	Landscape architects	100	105	5	5	0.61	32.67	Bachelor's degree
17-1021	Cartographers and photogrammetrists	89	104	15	17	2.31	23.10	Bachelor's degree
17-1022	Surveyors	251	276	25	10	1.68	19.72	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
17-2011	Aerospace engineers	12	14	2	17	0.06	52.54	Bachelor's degree
17-2021	Agricultural engineers	13	13	0	0	0.59	37.35	Bachelor's degree
17-2031	Biomedical engineers	15	17	2	13	0.31	34.86	Bachelor's degree
17-2041	Chemical engineers	63	74	11	17	0.89	54.22	Bachelor's degree
17-2051	Civil engineers	1,072	1,164	92	9	1.56	27.43	Bachelor's degree
17-2061	Computer hardware engineers	22	26	4	18	0.11	36.44	Bachelor's degree
17-2071	Electrical engineers	490	557	67	14	1.32	39.81	Bachelor's degree
17-2072	Electronics engineers, except computer	118	128	10	8	0.35	34.77	Bachelor's degree
17-2081	Environmental engineers	279	311	32	11	2.15	24.68	Bachelor's degree
17-2111	Health and safety engineers, except mining safety engineers and inspectors	40	45	5	13	0.64	26.55	Bachelor's degree
17-2112	Industrial engineers	492	699	207	42	1.01	32.61	Bachelor's degree
17-2131	Materials engineers	45	52	7	16	0.86	33.04	Bachelor's degree
17-2141	Mechanical engineers	420	466	46	11	0.78	32.46	Bachelor's degree
17-2161	Nuclear engineers	76	86	10	13	1.16	55.00	Bachelor's degree
17-2199	Engineers, all other	161	177	16	10	0.40	29.58	Bachelor's degree
17-3011	Architectural and civil drafters	235	228	-7	-3	0.84	21.01	Postsecondary vocational award

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
17-3012	Electrical and electronics drafters	93	104	11	12	1.00	26.10	Postsecondary vocational award
17-3013	Mechanical drafters	131	143	12	9	0.69	21.89	Postsecondary vocational award
17-3019	Drafters, all other	15	17	2	13	0.22	34.53	Postsecondary vocational award
17-3022	Civil engineering technicians	258	265	7	3	1.21	17.35	Associate's degree
17-3023	Electrical and electronic engineering technicians	450	492	42	9	1.09	26.34	Associate's degree
17-3025	Environmental engineering technicians	11	13	2	18	0.23	27.68	Associate's degree
17-3026	Industrial engineering technicians	265	324	59	22	1.49	20.26	Associate's degree
17-3027	Mechanical engineering technicians	138	152	14	10	1.22	18.90	Associate's degree
17-3029	Engineering technicians, except drafters, all other	96	104	8	8	0.50	25.85	Associate's degree
17-3031	Surveying and mapping technicians	257	273	16	6	1.27	17.41	Moderate-term on-the-job training
19-1012	Food scientists and technologists	10	12	2	20	0.38	23.56	Bachelor's degree
19-1013	Soil and plant Scientists	15	16	1	7	0.44	24.17	Bachelor's degree
19-1021	Biochemists and biophysicists	13	14	1	8	0.26	35.44	Doctoral degree
19-1022	Microbiologists	13	14	1	8	0.32	25.88	Doctoral degree
19-1023	Zoologists and wildlife biologists	43	44	1	2	0.94	22.10	Bachelor's degree
19-1029	Biological scientists, all other	40	42	2	5	0.63	23.65	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
19-1031	Conservation scientists	42	43	1	2	0.76	25.06	Bachelor's degree
19-1032	Foresters	100	105	5	5	2.58	25.95	Bachelor's degree
19-1042	Medical scientists, except epidemiologists	37	44	7	19	0.19	29.09	Doctoral degree
19-2012	Physicists	29	31	2	7	0.76	43.91	Doctoral degree
19-2021	Atmospheric and space scientists	12	13	1	8	0.58	29.65	Bachelor's degree
19-2031	Chemists	151	167	16	11	0.75	26.78	Bachelor's degree
19-2041	Environmental scientists and specialists, including health	123	132	9	7	0.54	22.02	Master's degree
19-2042	Geoscientists, except hydrologists and geographers	170	192	22	13	1.60	16.85	Master's degree
19-2043	Hydrologists	107	120	13	12	2.02	22.29	Master's degree
19-2099	Physical scientists, all other	32	34	2	6	0.41	35.08	Bachelor's degree
19-3011	Economists	68	72	4	6	1.70	27.18	Master's degree
19-3021	Market research analysts	248	285	37	15	0.39	21.93	Bachelor's degree
19-3022	Survey researchers	122	134	12	10	0.75	15.09	Bachelor's degree
19-3031	Clinical, counseling, and school psychologists	270	315	45	17	0.64	23.29	Doctoral degree
19-3032	Industrial-organizational psychologists	116	149	33	28	0.65	19.54	Master's degree
19-3039	Psychologists, all other	122	155	33	27	0.62	20.19	Master's degree
19-3051	Urban and regional planners	40	45	5	13	0.49	21.75	Master's degree
19-3099	Social scientists and related workers, all other	26	27	1	4	0.32	37.53	Master's degree
19-4011	Agricultural and food science technicians	22	25	3	14	0.40	13.67	Associate's degree
19-4021	Biological technicians	47	55	8	17	0.26	16.63	Associate's degree
19-4031	Chemical technicians	133	146	13	10	0.91	22.59	Associate's degree
19-4051	Nuclear technicians	127	156	29	23	7.20	32.52	Associate's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
19-4061	Social science research assistants	10	10	0	0	--	--	Associate's degree
19-4091	Environmental science and protection technicians, including health	122	135	13	11	1.37	18.71	Associate's degree
19-4092	Forensic science technicians	14	18	4	29	0.45	21.66	Associate's degree
19-4093	Forest and conservation technicians	44	46	2	5	0.56	18.83	Associate's degree
19-4099	Life, physical, and social science technicians, all other	60	65	5	8	0.40	20.43	Associate's degree
21-1011	Substance abuse and behavioral disorder counselors	73	87	14	19	0.32	13.63	Master's degree
21-1012	Educational, vocational, and school counselors	799	909	110	14	1.28	20.06	Master's degree
21-1013	Marriage and family therapists	102	111	9	9	1.14	15.28	Master's degree
21-1014	Mental health counselors	173	204	31	18	0.64	15.51	Master's degree
21-1015	Rehabilitation counselors	405	461	56	14	1.15	16.58	Master's degree
21-1019	Counselors, all other	91	102	11	12	0.94	14.95	Master's degree
21-1021	Child, family, and school social workers	1,716	1,795	79	5	2.40	13.99	Bachelor's degree
21-1022	Medical and public health social workers	421	556	135	32	1.34	19.07	Bachelor's degree
21-1023	Mental health and substance abuse social workers	180	215	35	19	0.56	13.54	Master's degree
21-1029	Social workers, all other	389	438	49	13	2.16	18.59	Bachelor's degree
21-1091	Health educators	265	317	52	20	1.74	18.43	Master's degree
21-1092	Probation officers and correctional treatment specialists	176	194	18	10	0.80	14.84	Bachelor's degree
21-1093	Social and human service assistants	825	908	83	10	0.97	11.93	Moderate-term on-the-job training
21-1099	Community and social service specialists, all other	372	417	45	12	1.24	13.45	Bachelor's degree
21-2011	Clergy	825	878	53	6	1.40	8.72	Master's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
21-2021	Directors, religious activities and education	284	301	17	6	1.28	7.62	Bachelor's degree
21-2099	Religious workers, all other	125	133	8	6	1.28	6.53	Bachelor's degree
23-1011	Lawyers	2,304	2,731	427	19	1.12	46.19	First professional degree
23-1021	Administrative law judges, adjudicators, and hearing officers	53	53	0	0	1.53	24.74	Degree plus work experience
23-1022	Arbitrators, mediators, and conciliators	96	109	13	14	4.75	15.92	Degree plus work experience
23-1023	Judges, magistrate judges, and magistrates	132	138	6	5	2.16	24.64	Degree plus work experience
23-2011	Paralegals and legal assistants	1,307	1,722	415	32	2.22	18.15	Associate's degree
23-2091	Court reporters	80	89	9	11	1.01	16.46	Postsecondary vocational award
23-2092	Law clerks	341	372	31	9	2.92	21.96	Bachelor's degree
23-2093	Title examiners, abstractors, and searchers	210	224	14	7	1.08	17.21	Moderate-term on-the-job training
23-2099	Legal support workers, all other	128	139	11	9	0.93	21.65	Bachelor's degree
25-1099	Postsecondary teachers	4,760	5,741	981	21	1.28	49.14	Doctoral degree
25-2011	Preschool teachers, except special education	688	688	0	0	0.56	8.36	Postsecondary vocational award
25-2012	Kindergarten teachers, except special education	253	300	47	19	0.56	23.01	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
25-2021	Elementary school teachers, except special education	3,729	4,365	636	17	0.95	25.49	Bachelor's degree
25-2022	Middle school teachers, except special and vocational education	1,425	1,634	209	15	0.83	27.43	Bachelor's degree
25-2023	Vocational education teachers, middle school	79	70	-9	-11	0.75	28.45	Degree plus work experience
25-2031	Secondary school teachers, except special and vocational education	2,953	3,264	311	11	1.13	28.25	Bachelor's degree
25-2032	Vocational education teachers, secondary school	119	116	-3	-3	0.46	23.65	Degree plus work experience
25-2041	Special education teachers, preschool, kindergarten, and elementary school	256	313	57	22	0.46	28.25	Bachelor's degree
25-2042	Special education teachers, middle school	117	139	22	19	0.46	26.52	Bachelor's degree
25-2043	Special education teachers, secondary school	166	185	19	11	0.48	27.93	Bachelor's degree
25-3011	Adult literacy, remedial education, and GED teachers and instructors	369	476	107	29	1.05	19.27	Bachelor's degree
25-3021	Self-enrichment education teachers	548	694	146	27	0.86	11.12	Work experience in a related field
25-3099	Teachers and instructors, all other	2,969	3,390	421	14	1.83	21.23	Bachelor's degree
25-4011	Archivists	75	88	13	17	4.83	15.63	Master's degree
25-4012	Curators	54	69	15	28	2.10	18.62	Master's degree
25-4013	Museum Technicians and Conservators	14	16	2	14	0.52	20.62	Master's degree
25-4021	Librarians	456	486	30	7	1.18	21.00	Master's degree
25-4031	Library technicians	280	313	33	12	0.97	11.93	Postsecondary vocational award

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
25-9011	Audio-visual collections specialists	41	40	-1	-2	0.82	13.26	Moderate-term on-the-job training
25-9021	Farm and home management advisors	68	70	2	3	1.05	21.39	Bachelor's degree
25-9031	Instructional coordinators	444	539	95	21	1.32	29.06	Master's degree
25-9041	Teacher assistants	2,547	2,800	253	10	0.75	9.90	Short-term on-the-job training
25-9099	Education, training, and library workers, all other	121	130	9	7	0.48	14.25	Bachelor's degree
27-1011	Art directors	174	208	34	20	0.56	9.91	Degree plus work experience
27-1012	Craft artists	149	182	33	22	0.64	6.51	Long-term on-the-job training
27-1013	Fine artists, including painters, sculptors, and illustrators	159	192	33	21	0.63	7.55	Long-term on-the-job training
27-1014	Multi-media artists and animators	223	283	60	27	0.76	9.40	Bachelor's degree
27-1019	Artists and related workers, all other	161	192	31	19	0.66	6.95	Long-term on-the-job training
27-1021	Commercial and industrial designers	119	149	30	25	0.68	15.41	Bachelor's degree
27-1022	Fashion designers	72	87	15	21	0.55	19.90	Associate's degree
27-1023	Floral designers	176	199	23	13	0.73	13.32	Moderate-term on-the-job training
27-1024	Graphic designers	503	582	79	16	0.85	16.82	Bachelor's degree
27-1025	Interior designers	159	202	43	27	0.70	18.62	Associate's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
27-1026	Merchandise displayers and window trimmers	204	244	40	20	0.83	15.21	Moderate-term on-the-job training
27-1027	Set and exhibit designers	75	91	16	21	0.66	19.46	Bachelor's degree
27-1029	Designers, all other	78	93	15	19	0.63	19.36	Bachelor's degree
27-2011	Actors	112	144	32	29	0.45	8.92	Long-term on-the-job training
27-2012	Producers and directors	151	186	35	23	0.52	11.51	Degree plus work experience
27-2021	Athletes and sports competitors	57	73	16	28	0.58	8.36	Long-term on-the-job training
27-2022	Coaches and scouts	447	533	86	19	0.97	18.07	Long-term on-the-job training
27-2023	Umpires, referees, and other sports officials	59	72	13	22	0.58	7.36	Long-term on-the-job training
27-2031	Dancers	23	28	5	22	0.39	9.52	Long-term on-the-job training
27-2032	Choreographers	66	78	12	18	1.13	16.70	Work experience in a related field
27-2041	Music directors and composers	288	339	51	18	0.75	6.09	Degree plus work experience
27-2042	Musicians and singers	491	614	123	25	0.91	8.07	Long-term on-the-job training
27-2099	Entertainers and performers, sports and related workers, all other	120	133	13	11	0.39	6.81	Long-term on-the-job training
27-3011	Radio and television announcers	134	147	13	10	1.01	11.88	Long-term on-the-job training
27-3012	Public address system and other announcers	32	39	7	22	0.58	8.59	Long-term on-the-job training

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27-3021	Broadcast news analysts	41	47	6	15	0.95	17.22	Degree plus work experience
27-3022	Reporters and correspondents	93	89	-4	-4	0.61	18.95	Degree plus work experience
27-3031	Public relations specialists	718	816	98	14	1.13	19.87	Bachelor's degree
27-3041	Editors	202	219	17	8	0.56	16.83	Bachelor's degree
27-3042	Technical writers	61	73	12	20	0.44	18.39	Bachelor's degree
27-3043	Writers and authors	574	684	110	19	0.62	6.43	Bachelor's degree
27-3091	Interpreters and translators	244	263	19	8	0.72	20.61	Long-term on-the-job training
27-3099	Media and communication workers, all other	197	202	5	3	0.61	19.29	Long-term on-the-job training
27-4011	Audio and video equipment technicians	47	59	12	26	0.40	14.79	Long-term on-the-job training
27-4012	Broadcast technicians	104	123	19	18	1.11	13.62	Associate's degree
27-4014	Sound engineering technicians	29	35	6	21	0.60	12.64	Postsecondary vocational award
27-4021	Photographers	1,170	1,206	36	3	0.66	15.73	Long-term on-the-job training
27-4031	Camera operators, television, video, and motion picture	73	92	19	26	1.04	16.74	Moderate-term on-the-job training
27-4032	Film and video editors	21	27	6	29	0.37	15.32	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
27-4099	Media and communication equipment workers, all other	92	104	12	13	1.63	13.79	Moderate-term on-the-job training
29-1011	Chiropractors	89	102	13	15	0.65	34.55	First professional degree
29-1021	Dentists, general	158	178	20	13	0.67	61.46	First professional degree
29-1022	Oral and maxillofacial surgeons	23	27	4	17	0.60	80.86	First professional degree
29-1023	Orthodontists	28	33	5	18	0.75	74.88	First professional degree
29-1024	Prosthodontists	19	23	4	21	0.73	81.53	First professional degree
29-1029	Dentists, all other specialists	22	26	4	18	0.62	76.64	First professional degree
29-1031	Dietitians and nutritionists	212	250	38	18	1.26	23.59	Bachelor's degree
29-1041	Optometrists	70	71	1	1	0.62	31.36	First professional degree
29-1051	Pharmacists	709	999	290	41	1.20	47.72	First professional degree
29-1069	Physicians and surgeons	1,943	2,246	303	16	0.98	97.66	First professional degree
29-1071	Physician assistants	85	111	26	31	0.54	41.08	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
29-1081	Podiatrists	64	76	12	19	0.73	29.35	First professional degree
29-1111	Registered nurses	6,619	9,009	2,390	36	1.12	26.50	Associate's degree
29-1121	Audiologists	41	50	9	22	0.96	30.18	First professional degree
29-1122	Occupational therapists	217	291	74	34	0.87	31.31	Master's degree
29-1123	Physical therapists	398	556	158	40	0.86	33.01	Master's degree
29-1124	Radiation therapists	25	35	10	40	0.71	39.10	Associate's degree
29-1125	Recreational therapists	113	120	7	6	1.91	12.77	Bachelor's degree
29-1126	Respiratory therapists	353	518	165	47	1.47	21.40	Associate's degree
29-1127	Speech-language pathologists	253	301	48	19	0.81	23.66	Master's degree
29-1129	Therapists, all other	84	105	21	25	0.63	18.79	Bachelor's degree
29-1131	Veterinarians	130	166	36	28	0.80	41.17	First professional degree
29-1199	Health diagnosing and treating practitioners, all other	232	281	49	21	0.99	23.53	Bachelor's degree
29-2011	Medical and clinical laboratory technologists	763	911	148	19	1.94	20.45	Bachelor's degree
29-2012	Medical and clinical laboratory technicians	583	701	118	20	1.63	13.55	Associate's degree
29-2021	Dental hygienists	429	565	136	32	1.05	22.25	Associate's degree
29-2031	Cardiovascular technologists and technicians	272	393	121	44	2.50	18.82	Associate's degree
29-2032	Diagnostic medical sonographers	126	167	41	33	1.14	27.27	Associate's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
29-2033	Nuclear medicine technologists	80	106	26	33	1.64	28.29	Associate's degree
29-2034	Radiologic technologists and technicians	497	641	144	29	1.07	21.05	Associate's degree
29-2041	Emergency medical technicians and paramedics	529	798	269	51	1.10	14.49	Postsecondary vocational award
29-2051	Dietetic technicians	94	121	27	29	1.58	14.66	Moderate-term on-the-job training
29-2052	Pharmacy technicians	818	1,158	340	42	1.19	11.22	Moderate-term on-the-job training
29-2053	Psychiatric technicians	45	46	1	2	0.31	15.48	Moderate-term on-the-job training
29-2054	Respiratory therapy technicians	42	52	10	24	0.92	16.15	Associate's degree
29-2055	Surgical technologists	393	570	177	45	1.94	16.20	Postsecondary vocational award
29-2056	Veterinary technologists and technicians	164	220	56	34	0.96	9.58	Associate's degree
29-2061	Licensed practical and licensed vocational nurses	2,070	2,456	386	19	1.17	17.80	Postsecondary vocational award
29-2071	Medical records and health information technicians	701	884	183	26	1.74	16.64	Associate's degree
29-2081	Opticians, dispensing	246	270	24	10	1.26	13.20	Long-term on-the-job training
29-2091	Orthotists and prosthetists	49	56	7	14	1.55	38.08	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
29-2099	Healthcare technologists and technicians, all other	130	162	32	25	0.67	19.43	Postsecondary vocational award
29-9011	Occupational health and safety specialists	371	410	39	11	3.51	18.38	Bachelor's degree
29-9012	Occupational health and safety technicians	33	39	6	18	1.25	21.32	Postsecondary vocational award
29-9091	Athletic trainers	47	59	12	26	1.18	23.63	Bachelor's degree
29-9099	Healthcare practitioners and technical workers, all other	24	29	5	21	0.19	17.79	Postsecondary vocational award
31-1011	Home health aides	1,793	2,762	969	54	0.88	9.76	Short-term on-the-job training
31-1012	Nursing aides, orderlies, and attendants	3,505	4,440	935	27	0.99	10.25	Postsecondary vocational award
31-1013	Psychiatric aides	144	172	28	19	0.47	19.50	Short-term on-the-job training
31-2011	Occupational therapist assistants	31	42	11	35	0.55	23.92	Associate's degree
31-2012	Occupational therapist aides	26	33	7	27	1.34	8.87	Short-term on-the-job training
31-2021	Physical therapist assistants	94	136	42	45	0.66	22.02	Associate's degree
31-2022	Physical therapist aides	84	112	28	33	0.76	9.93	Short-term on-the-job training
31-9011	Massage therapists	144	102	-42	-29	0.61	8.98	Postsecondary vocational award
31-9091	Dental assistants	646	845	199	31	0.96	14.38	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
31-9092	Medical assistants	989	1,333	344	35	0.97	13.62	Moderate-term on-the-job training
31-9093	Medical equipment preparers	135	176	41	30	1.06	14.93	Short-term on-the-job training
31-9094	Medical transcriptionists	174	215	41	24	0.74	14.70	Postsecondary vocational award
31-9095	Pharmacy aides	90	101	11	12	0.64	10.98	Short-term on-the-job training
31-9096	Veterinary assistants and laboratory animal caretakers	148	169	21	14	0.74	10.06	Short-term on-the-job training
31-9099	Healthcare support workers, all other	392	477	85	22	0.82	14.67	Short-term on-the-job training
33-1011	First-line supervisors/managers of correctional officers	54	61	7	13	0.60	27.04	Work experience in a related field
33-1012	First-line supervisors/managers of police and detectives	108	122	14	13	0.50	21.45	Work experience in a related field
33-1021	First-line supervisors/managers of fire fighting and prevention workers	38	45	7	18	0.31	19.89	Work experience in a related field
33-1099	First-line supervisors/managers, protective service workers, all other	100	114	14	14	0.83	17.47	Work experience in a related field
33-2011	Fire fighters	337	404	67	20	0.49	16.55	Long-term on-the-job training
33-2021	Fire inspectors and investigators	39	45	6	15	1.20	17.05	Work experience in a related field
33-3011	Bailiffs	57	65	8	14	1.33	11.36	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
33-3012	Correctional officers and jailers	2,044	2,424	380	19	2.03	12.94	Moderate-term on-the-job training
33-3021	Detectives and criminal investigators	211	253	42	20	0.86	23.75	Work experience in a related field
33-3041	Parking enforcement workers	31	37	6	19	1.26	11.77	Short-term on-the-job training
33-3051	Police and sheriff's patrol officers	1,929	2,224	295	15	1.25	17.05	Long-term on-the-job training
33-3052	Transit and railroad police	10	12	2	20	--	--	Long-term on-the-job training
33-9011	Animal control workers	40	48	8	20	1.12	16.68	Moderate-term on-the-job training
33-9021	Private detectives and investigators	116	132	16	14	0.73	19.50	Work experience in a related field
33-9031	Gaming surveillance officers and gaming investigators	20	21	1	5	0.47	24.86	Moderate-term on-the-job training
33-9032	Security guards	2,799	3,374	575	21	1.13	10.05	Short-term on-the-job training
33-9091	Crossing guards	86	93	7	8	0.54	8.34	Short-term on-the-job training
33-9092	Lifeguards, ski patrol, and other recreational protective service workers	208	250	42	20	0.73	7.58	Short-term on-the-job training
33-9099	Protective service workers, all other	132	152	20	15	0.66	9.49	Short-term on-the-job training
35-1011	Chefs and head cooks	265	298	33	12	0.85	15.36	Work experience in a related field

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
35-1012	First-line supervisors/managers of food preparation and serving workers	2,070	2,399	329	16	1.00	14.06	Work experience in a related field
35-2011	Cooks, fast food	2,085	2,348	263	13	1.38	7.43	Short-term on-the-job training
35-2012	Cooks, institution and cafeteria	1,385	1,607	222	16	1.40	9.53	Moderate-term on-the-job training
35-2013	Cooks, private household	22	31	9	41	0.78	22.34	Long-term on-the-job training
35-2014	Cooks, restaurant	2,316	2,495	179	8	1.14	8.92	Long-term on-the-job training
35-2015	Cooks, short order	860	916	56	7	1.77	7.80	Short-term on-the-job training
35-2019	Cooks, all other	27	36	9	33	0.48	21.21	Moderate-term on-the-job training
35-2021	Food preparation workers	2,407	2,854	447	19	1.11	8.13	Short-term on-the-job training
35-3011	Bartenders	701	754	53	8	0.56	6.88	Short-term on-the-job training
35-3021	Combined food preparation and serving workers, including fast food	4,270	5,203	933	22	0.71	6.65	Short-term on-the-job training
35-3022	Counter attendants, cafeteria, food concession, and coffee shop	1,221	1,386	165	14	0.95	6.82	Short-term on-the-job training
35-3031	Waiters and waitresses	6,090	6,548	458	8	1.08	6.46	Short-term on-the-job training
35-3041	Food servers, nonrestaurant	187	233	46	25	0.42	7.85	Short-term on-the-job training
35-9011	Dining room and cafeteria attendants and bartender helpers	1,319	1,442	123	9	1.33	9.41	Short-term on-the-job training
35-9021	Dishwashers	909	988	79	9	0.73	7.01	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
35-9031	Hosts and hostesses, restaurant, lounge, and coffee shop	842	900	58	7	1.00	7.14	Short-term on-the-job training
37-1011	First-line supervisors/managers of housekeeping and janitorial workers	880	1,052	172	20	0.96	11.51	Work experience in a related field
37-1012	First-line supervisors/managers of landscaping, lawn service, and groundskeeping workers	426	532	106	25	1.16	13.82	Work experience in a related field
37-2011	Janitors and cleaners, except maids and housekeeping cleaners	5,924	6,938	1,014	17	1.07	8.34	Short-term on-the-job training
37-2012	Maids and housekeeping cleaners	2,962	3,539	577	19	0.68	7.04	Short-term on-the-job training
37-2019	Building cleaning workers, all other	926	1,214	288	31	0.78	8.67	Short-term on-the-job training
37-2021	Pest control workers	347	407	60	17	1.52	12.26	Moderate-term on-the-job training
37-3011	Landscaping and groundskeeping workers	1,869	2,298	429	23	0.75	9.16	Short-term on-the-job training
37-3012	Pesticide handlers, sprayers, and applicators, vegetation	293	378	85	29	1.18	8.68	Moderate-term on-the-job training
37-3013	Tree trimmers and pruners	232	300	68	29	0.92	8.00	Short-term on-the-job training
37-3019	Grounds maintenance workers, all other	323	406	83	26	1.35	8.01	Short-term on-the-job training
39-1011	Gaming supervisors	37	40	3	8	0.35	6.84	Work experience in a related field
39-1012	Slot key persons	36	39	3	8	0.45	6.91	Postsecondary vocational award

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39-1021	First-line supervisors/managers of personal service workers	494	464	-30	-6	0.84	9.55	Work experience in a related field
39-2011	Animal trainers	115	90	-25	-22	0.51	6.76	Moderate-term on-the-job training
39-2021	Nonfarm animal caretakers	733	587	-146	-20	0.82	6.68	Short-term on-the-job training
39-3011	Gaming dealers	30	38	8	27	0.14	7.40	Postsecondary vocational award
39-3012	Gaming and sports book writers and runners	86	103	17	20	1.68	6.54	Short-term on-the-job training
39-3019	Gaming service workers, all other	14	16	2	14	0.26	9.08	Moderate-term on-the-job training
39-3021	Motion picture projectionists	16	15	-1	-6	0.60	8.39	Short-term on-the-job training
39-3031	Ushers, lobby attendants, and ticket takers	297	346	49	16	1.19	6.34	Short-term on-the-job training
39-3091	Amusement and recreation attendants	453	507	54	12	0.78	7.14	Short-term on-the-job training
39-3092	Costume attendants	11	13	2	18	0.64	7.24	Short-term on-the-job training
39-3093	Locker room, coatroom, and dressing room attendants	23	26	3	13	0.45	8.38	Short-term on-the-job training
39-3099	Entertainment attendants and related workers, all other	24	28	4	17	0.24	8.20	Moderate-term on-the-job training
39-4021	Funeral attendants	107	126	19	18	1.39	9.69	Short-term on-the-job training
39-5011	Barbers	97	45	-52	-54	0.83	6.94	Postsecondary vocational award

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39-5012	Hairdressers, hairstylists, and cosmetologists	1,231	1,053	-178	-14	0.91	9.40	Postsecondary vocational award
39-5091	Makeup artists, theatrical and performance	28	14	-14	-50	0.81	6.22	Postsecondary vocational award
39-5092	Manicurists and pedicurists	64	59	-5	-8	0.43	8.55	Postsecondary vocational award
39-5093	Shampooers	29	16	-13	-45	0.42	6.49	Short-term on-the-job training
39-5094	Skin care specialists	49	43	-6	-12	0.57	9.01	Postsecondary vocational award
39-6011	Baggage porters and bellhops	13	13	0	0	0.11	8.04	Short-term on-the-job training
39-6012	Concierges	24	27	3	13	0.50	9.21	Moderate-term on-the-job training
39-6021	Tour guides and escorts	55	66	11	20	0.55	9.21	Moderate-term on-the-job training
39-6022	Travel guides	19	23	4	21	0.57	11.52	Moderate-term on-the-job training
39-6031	Flight attendants	73	81	8	11	0.31	20.26	Long-term on-the-job training
39-6032	Transportation attendants, except flight attendants and baggage porters	12	13	1	8	0.22	8.89	Short-term on-the-job training
39-9011	Child care workers	2,839	3,007	168	6	0.72	6.92	Short-term on-the-job training
39-9021	Personal and home care aides	1,362	2,114	752	55	0.66	12.07	Short-term on-the-job training

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39-9031	Fitness trainers and aerobics instructors	576	709	133	23	0.91	14.27	Postsecondary vocational award
39-9032	Recreation workers	666	763	97	15	0.79	8.09	Short-term on-the-job training
39-9041	Residential advisors	113	119	6	5	0.88	10.08	Moderate-term on-the-job training
39-9099	Personal care and service workers, all other	181	107	-74	-41	0.63	7.33	Short-term on-the-job training
41-1011	First-line supervisors/managers of retail sales workers	5,160	5,873	713	14	0.96	18.84	Work experience in a related field
41-1012	First-line supervisors/managers of non-retail sales workers	2,019	2,288	269	13	0.90	34.11	Work experience in a related field
41-2011	Cashiers, except gaming	9,655	10,670	1,015	11	1.13	7.40	Short-term on-the-job training
41-2012	Gaming change persons and booth cashiers	113	131	18	16	0.74	26.81	Short-term on-the-job training
41-2021	Counter and rental clerks	1,156	1,522	366	32	1.00	10.45	Short-term on-the-job training
41-2022	Parts salespersons	724	721	-3	0	1.26	15.74	Moderate-term on-the-job training
41-2031	Retail salespersons	10,593	12,025	1,432	14	0.89	10.96	Short-term on-the-job training
41-3011	Advertising sales agents	464	520	56	12	0.86	19.03	Moderate-term on-the-job training
41-3021	Insurance sales agents	2,244	2,419	175	8	1.28	19.49	Bachelor's degree
41-3031	Securities, commodities, and financial services sales agents	889	1,043	154	17	0.55	20.55	Bachelor's degree

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41-3041	Travel agents	106	92	-14	-13	0.38	19.30	Postsecondary vocational award
41-3099	Sales representatives, services, all other	1,023	1,221	198	19	0.60	20.62	Moderate-term on-the-job training
41-4011	Sales representatives, wholesale and manufacturing, technical and scientific products	951	1,120	169	18	0.75	47.73	Moderate-term on-the-job training
41-4012	Sales representatives, wholesale and manufacturing, except technical and scientific products	3,485	3,998	513	15	0.89	28.85	Moderate-term on-the-job training
41-9011	Demonstrators and product promoters	268	315	47	18	0.89	11.39	Moderate-term on-the-job training
41-9012	Models	70	81	11	16	0.74	6.39	Moderate-term on-the-job training
41-9021	Real estate brokers	3,516	4,864	1,348	38	0.87	11.25	Work experience in a related field
41-9022	Real estate sales agents	3,975	5,362	1,387	35	0.91	10.87	Postsecondary vocational award
41-9031	Sales engineers	121	130	9	7	0.65	32.14	Bachelor's degree
41-9041	Telemarketers	591	467	-124	-21	0.60	10.10	Short-term on-the-job training
41-9091	Door-to-door sales workers, news and street vendors, and related workers	2,022	2,393	371	18	0.76	5.93	Short-term on-the-job training
41-9099	Sales and related workers, all other	751	844	93	12	0.87	12.97	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
43-1011	First-line supervisors/managers of office and administrative support workers	5,820	6,198	378	6	1.59	19.69	Work experience in a related field
43-2011	Switchboard operators, including answering service	560	516	-44	-8	1.30	10.83	Short-term on-the-job training
43-2021	Telephone operators	146	71	-75	-51	2.01	13.10	Short-term on-the-job training
43-2099	Communications equipment operators, all other	14	15	1	7	1.26	14.06	Short-term on-the-job training
43-3011	Bill and account collectors	1,538	1,923	385	25	1.46	13.86	Short-term on-the-job training
43-3021	Billing and posting clerks and machine operators	1,778	1,962	184	10	1.36	13.76	Moderate-term on-the-job training
43-3031	Bookkeeping, accounting, and auditing clerks	5,583	6,468	885	16	1.03	14.58	Moderate-term on-the-job training
43-3041	Gaming cage workers	29	32	3	10	0.67	12.90	Short-term on-the-job training
43-3051	Payroll and timekeeping clerks	555	612	57	10	1.08	15.06	Moderate-term on-the-job training
43-3061	Procurement clerks	359	385	26	7	1.96	14.96	Short-term on-the-job training
43-3071	Tellers	1,439	1,623	184	13	0.97	14.09	Short-term on-the-job training
43-4011	Brokerage clerks	53	45	-8	-15	0.29	17.29	Moderate-term on-the-job training
43-4021	Correspondence clerks	111	124	13	12	2.55	12.96	Short-term on-the-job training
43-4031	Court, municipal, and license clerks	175	189	14	8	0.67	14.20	Short-term on-the-job training

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43-4041	Credit authorizers, checkers, and clerks	195	164	-31	-16	1.18	14.40	Short-term on-the-job training
43-4051	Customer service representatives	7,784	9,325	1,541	20	1.44	15.00	Moderate-term on-the-job training
43-4061	Eligibility interviewers, government programs	41	42	1	2	0.16	17.75	Moderate-term on-the-job training
43-4071	File clerks	944	634	-310	-33	1.64	10.35	Short-term on-the-job training
43-4081	Hotel, motel, and resort desk clerks	565	608	43	8	1.07	8.74	Short-term on-the-job training
43-4111	Interviewers, except eligibility and loan	729	874	145	20	1.26	11.92	Short-term on-the-job training
43-4121	Library assistants, clerical	355	397	42	12	1.31	10.30	Short-term on-the-job training
43-4131	Loan interviewers and clerks	583	501	-82	-14	0.93	19.09	Short-term on-the-job training
43-4141	New accounts clerks	394	334	-60	-15	1.99	15.04	Work experience in a related field
43-4151	Order clerks	452	358	-94	-21	0.70	12.83	Short-term on-the-job training
43-4161	Human resources assistants, except payroll and timekeeping	728	848	120	16	1.82	15.56	Short-term on-the-job training
43-4171	Receptionists and information clerks	2,293	2,686	393	17	0.81	11.29	Short-term on-the-job training
43-4181	Reservation and transportation ticket agents and travel clerks	175	182	7	4	0.44	15.16	Short-term on-the-job training
43-4199	Information and record clerks, all other	487	439	-48	-10	0.86	16.44	Short-term on-the-job training
43-5011	Cargo and freight agents	112	128	16	14	0.54	17.34	Moderate-term on-the-job training

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43-5021	Couriers and messengers	715	867	152	21	0.95	15.08	Short-term on-the-job training
43-5031	Police, fire, and ambulance dispatchers	150	180	30	20	0.62	13.83	Moderate-term on-the-job training
43-5032	Dispatchers, except police, fire, and ambulance	491	524	33	7	1.07	13.70	Moderate-term on-the-job training
43-5041	Meter readers, utilities	283	276	-7	-2	2.54	14.08	Short-term on-the-job training
43-5051	Postal service clerks	138	152	14	10	0.73	22.01	Short-term on-the-job training
43-5052	Postal service mail carriers	741	812	71	10	0.93	21.49	Short-term on-the-job training
43-5053	Postal service mail sorters, processors, and processing machine operators	563	565	2	0	1.17	21.51	Short-term on-the-job training
43-5061	Production, planning, and expediting clerks	555	647	92	17	0.79	19.16	Short-term on-the-job training
43-5071	Shipping, receiving, and traffic clerks	2,264	2,481	217	10	1.22	11.39	Short-term on-the-job training
43-5081	Stock clerks and order fillers	6,107	6,007	-100	-2	1.46	9.92	Short-term on-the-job training
43-5111	Weighers, measurers, checkers, and samplers, recordkeeping	87	83	-4	-5	0.45	12.25	Short-term on-the-job training
43-6011	Executive secretaries and administrative assistants	3,680	4,181	501	14	0.90	16.87	Moderate-term on-the-job training
43-6012	Legal secretaries	1,007	1,227	220	22	1.15	18.20	Postsecondary vocational award
43-6013	Medical secretaries	1,151	1,418	267	23	0.98	13.93	Postsecondary vocational award

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
43-6014	Secretaries, except legal, medical, and executive	6,288	6,462	174	3	1.29	13.03	Moderate-term on-the-job training
43-9011	Computer operators	377	307	-70	-19	1.19	16.05	Moderate-term on-the-job training
43-9021	Data entry keyers	1,188	1,133	-55	-5	1.40	14.76	Moderate-term on-the-job training
43-9022	Word processors and typists	213	214	1	0	0.46	12.01	Moderate-term on-the-job training
43-9031	Desktop publishers	68	80	12	18	0.59	16.54	Postsecondary vocational award
43-9041	Insurance claims and policy processing clerks	810	802	-8	-1	1.27	21.88	Moderate-term on-the-job training
43-9051	Mail clerks and mail machine operators, except postal service	410	364	-46	-11	1.06	12.42	Short-term on-the-job training
43-9061	Office clerks, general	10,136	11,342	1,206	12	1.28	11.54	Short-term on-the-job training
43-9071	Office machine operators, except computer	67	65	-2	-3	0.30	13.61	Short-term on-the-job training
43-9081	Proofreaders and copy markers	78	85	7	9	1.54	13.27	Short-term on-the-job training
43-9111	Statistical assistants	84	89	5	6	1.70	15.58	Moderate-term on-the-job training
43-9199	Office and administrative support workers, all other	385	372	-13	-3	0.51	15.62	Short-term on-the-job training
45-1099	Supervisors, farming, fishing, and forestry workers	45	50	5	11	0.44	19.73	Work experience in a related field

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45-2011	Agricultural inspectors	12	13	1	8	0.31	17.46	Work experience in a related field
45-2041	Graders and sorters, agricultural products	24	25	1	4	0.17	10.21	Work experience in a related field
45-2092	Farmworkers and laborers, crop, nursery, and greenhouse	91	109	18	20	0.12	9.50	Short-term on-the-job training
45-2093	Farmworkers, farm and ranch animals	18	21	3	17	0.13	7.80	Short-term on-the-job training
45-2099	Agricultural workers, all other	26	30	4	15	0.74	11.40	Short-term on-the-job training
45-3011	Fishers and related fishing workers	66	68	2	3	0.28	5.98	Moderate-term on-the-job training
45-4011	Forest and conservation workers	26	28	2	8	1.02	12.60	Moderate-term on-the-job training
45-4021	Fallers	95	81	-14	-15	1.78	11.54	Moderate-term on-the-job training
45-4022	Logging equipment operators	61	61	0	0	0.59	15.92	Moderate-term on-the-job training
45-4023	Log graders and scalers	26	29	3	12	0.57	16.68	Moderate-term on-the-job training
45-4029	Logging workers, all other	19	23	4	21	0.40	18.06	Moderate-term on-the-job training
47-1011	First-line supervisors/managers of construction trades and extraction workers	2,766	3,268	502	18	1.06	21.73	Work experience in a related field

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47-2011	Boilermakers	16	22	6	38	0.38	25.10	Long-term on-the-job training
47-2021	Brickmasons and blockmasons	567	622	55	10	1.48	15.16	Long-term on-the-job training
47-2022	Stonemasons	87	101	14	16	0.67	22.08	Long-term on-the-job training
47-2031	Carpenters	3,267	3,810	543	17	0.78	18.69	Long-term on-the-job training
47-2041	Carpet installers	79	96	17	22	0.50	20.55	Moderate-term on-the-job training
47-2042	Floor layers, except carpet, wood, and hard tiles	78	92	14	18	0.76	20.02	Moderate-term on-the-job training
47-2043	Floor sanders and finishers	69	79	10	14	0.81	20.86	Moderate-term on-the-job training
47-2044	Tile and marble setters	178	227	49	28	0.91	17.21	Long-term on-the-job training
47-2051	Cement masons and concrete finishers	416	496	80	19	0.73	13.51	Moderate-term on-the-job training
47-2053	Terrazzo workers and finishers	21	25	4	19	0.58	20.92	Long-term on-the-job training
47-2061	Construction laborers	2,420	2,893	473	20	0.70	14.83	Moderate-term on-the-job training
47-2071	Paving, surfacing, and tamping equipment operators	175	219	44	25	1.09	13.32	Moderate-term on-the-job training
47-2072	Pile-driver operators	58	69	11	19	0.77	20.84	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
47-2073	Operating engineers and other construction equipment operators	1,144	1,399	255	22	1.10	14.57	Moderate-term on-the-job training
47-2081	Drywall and ceiling tile installers	623	622	-1	0	1.43	14.18	Moderate-term on-the-job training
47-2082	Tapers	91	104	13	14	0.50	22.11	Moderate-term on-the-job training
47-2111	Electricians	1,691	1,718	27	2	0.94	17.88	Long-term on-the-job training
47-2121	Glaziers	115	130	15	13	0.80	15.55	Long-term on-the-job training
47-2131	Insulation workers, floor, ceiling, and wall	51	51	0	0	0.63	12.69	Moderate-term on-the-job training
47-2132	Insulation workers, mechanical	50	53	3	6	0.69	12.00	Moderate-term on-the-job training
47-2141	Painters, construction and maintenance	1,155	1,286	131	11	0.84	18.06	Moderate-term on-the-job training
47-2142	Paperhangers	33	36	3	9	0.77	21.41	Moderate-term on-the-job training
47-2151	Pipelayers	324	396	72	22	1.17	17.25	Moderate-term on-the-job training
47-2152	Plumbers, pipefitters, and steamfitters	1,324	1,683	359	27	1.09	17.27	Long-term on-the-job training
47-2161	Plasterers and stucco masons	69	72	3	4	0.46	18.47	Long-term on-the-job training
47-2171	Reinforcing iron and rebar workers	59	74	15	25	0.78	14.60	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
47-2181	Roofers	396	441	45	11	0.86	16.03	Moderate-term on-the-job training
47-2211	Sheet metal workers	352	414	62	18	0.74	16.07	Long-term on-the-job training
47-2221	Structural iron and steel workers	122	154	32	26	0.67	15.84	Long-term on-the-job training
47-3011	Helpers, brickmasons, blockmasons, stonemasons, and tile and marble setters	374	401	27	7	2.37	10.23	Short-term on-the-job training
47-3012	Helpers, carpenters	484	564	80	17	1.85	10.75	Short-term on-the-job training
47-3013	Helpers, electricians	546	505	-41	-8	2.14	10.73	Short-term on-the-job training
47-3014	Helpers, painters, paperhangers, plasterers, and stucco masons	54	50	-4	-7	0.89	9.74	Short-term on-the-job training
47-3015	Helpers, pipelayers, plumbers, pipefitters, and steamfitters	475	621	146	31	2.30	10.85	Short-term on-the-job training
47-3016	Helpers, roofers	43	43	0	0	0.78	10.12	Short-term on-the-job training
47-3019	Helpers, construction trades, all other	168	190	22	13	1.86	10.01	Short-term on-the-job training
47-4011	Construction and building inspectors	356	404	48	13	1.15	24.63	Work experience in a related field
47-4021	Elevator installers and repairers	36	36	0	0	0.63	17.94	Long-term on-the-job training
47-4031	Fence erectors	51	65	14	27	0.63	16.74	Moderate-term on-the-job training
47-4041	Hazardous materials removal workers	160	141	-19	-12	1.67	15.74	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
47-4051	Highway maintenance workers	43	47	4	9	0.13	15.68	Moderate-term on-the-job training
47-4061	Rail-track laying and maintenance equipment operators	15	18	3	20	0.46	12.57	Moderate-term on-the-job training
47-4071	Septic tank servicers and sewer pipe cleaners	88	95	7	8	1.40	17.45	Moderate-term on-the-job training
47-4091	Segmental pavers	20	25	5	25	1.59	21.91	Moderate-term on-the-job training
47-4099	Construction and related workers, all other	28	31	3	11	0.19	18.03	Moderate-term on-the-job training
47-5021	Earth drillers, except oil and gas	23	27	4	17	0.38	18.98	Moderate-term on-the-job training
47-5041	Continuous mining machine operators	11	11	0	0	0.41	25.51	Moderate-term on-the-job training
47-5081	Helpers, extraction workers	48	58	10	21	0.72	11.16	Short-term on-the-job training
49-1011	First-line supervisors/managers of mechanics, installers, and repairers	1,607	1,763	156	10	1.42	23.77	Work experience in a related field
49-2011	Computer, automated teller, and office machine repairers	578	567	-11	-2	1.27	18.26	Postsecondary vocational award
49-2021	Radio mechanics	25	25	0	0	0.96	19.08	Postsecondary vocational award
49-2022	Telecommunications equipment installers and repairers, except line installers	400	447	47	12	0.77	21.64	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
49-2091	Avionics technicians	17	16	-1	-6	0.47	20.00	Postsecondary vocational award
49-2092	Electric motor, power tool, and related repairers	87	82	-5	-6	1.47	15.00	Postsecondary vocational award
49-2093	Electrical and electronics installers and repairers, transportation equipment	53	53	0	0	1.12	25.02	Postsecondary vocational award
49-2094	Electrical and electronics repairers, commercial and industrial equipment	252	283	31	12	1.33	21.87	Postsecondary vocational award
49-2095	Electrical and electronics repairers, powerhouse, substation, and relay	86	97	11	13	1.60	44.32	Postsecondary vocational award
49-2096	Electronic equipment installers and repairers, motor vehicles	62	66	4	6	1.27	22.25	Postsecondary vocational award
49-2097	Electronic home entertainment equipment installers and repairers	95	110	15	16	0.68	18.90	Postsecondary vocational award
49-2098	Security and fire alarm systems installers	89	107	18	20	0.58	18.37	Postsecondary vocational award
49-3011	Aircraft mechanics and service technicians	140	146	6	4	0.46	22.78	Postsecondary vocational award
49-3021	Automotive body and related repairers	482	521	39	8	1.03	16.62	Long-term on-the-job training
49-3022	Automotive glass installers and repairers	54	58	4	7	0.98	17.93	Long-term on-the-job training
49-3023	Automotive service technicians and mechanics	1,980	2,310	330	17	0.98	16.83	Postsecondary vocational award

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
49-3031	Bus and truck mechanics and diesel engine specialists	730	839	109	15	1.08	18.46	Postsecondary vocational award
49-3041	Farm equipment mechanics	17	18	1	6	0.20	20.29	Postsecondary vocational award
49-3042	Mobile heavy equipment mechanics, except engines	610	697	87	14	2.01	20.28	Postsecondary vocational award
49-3043	Rail car repairers	19	22	3	16	0.28	20.40	Long-term on-the-job training
49-3051	Motorboat mechanics	92	98	6	7	1.26	14.06	Long-term on-the-job training
49-3052	Motorcycle mechanics	65	69	4	6	0.96	12.42	Long-term on-the-job training
49-3053	Outdoor power equipment and other small engine mechanics	108	113	5	5	1.21	10.08	Moderate-term on-the-job training
49-3091	Bicycle repairers	18	20	2	11	0.72	16.24	Moderate-term on-the-job training
49-3092	Recreational vehicle service technicians	28	27	-1	-4	0.77	18.91	Long-term on-the-job training
49-3093	Tire repairers and changers	304	414	110	36	1.20	11.01	Short-term on-the-job training
49-9011	Mechanical door repairers	29	32	3	10	0.81	18.95	Moderate-term on-the-job training
49-9012	Control and valve installers and repairers, except mechanical door	195	221	26	13	1.89	27.91	Moderate-term on-the-job training
49-9021	Heating, air conditioning, and refrigeration mechanics and installers	869	1,063	194	22	1.09	16.66	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
49-9031	Home appliance repairers	199	219	20	10	0.98	12.84	Long-term on-the-job training
49-9041	Industrial machinery mechanics	688	836	148	22	1.09	21.98	Long-term on-the-job training
49-9042	Maintenance and repair workers, general	4,341	4,964	623	14	1.27	14.62	Moderate-term on-the-job training
49-9043	Maintenance workers, machinery	149	161	12	8	0.76	19.91	Short-term on-the-job training
49-9044	Millwrights	204	242	38	19	1.55	17.10	Long-term on-the-job training
49-9045	Refractory materials repairers, except brickmasons	17	20	3	18	0.76	27.22	Moderate-term on-the-job training
49-9051	Electrical power-line installers and repairers	496	599	103	21	1.78	27.89	Long-term on-the-job training
49-9052	Telecommunications line installers and repairers	321	343	22	7	0.74	21.75	Long-term on-the-job training
49-9061	Camera and photographic equipment repairers	25	31	6	24	0.85	8.42	Moderate-term on-the-job training
49-9062	Medical equipment repairers	81	103	22	27	0.82	11.25	Associate's degree
49-9063	Musical instrument repairers and tuners	25	30	5	20	0.76	7.94	Long-term on-the-job training
49-9064	Watch repairers	25	31	6	24	0.89	8.07	Long-term on-the-job training
49-9069	Precision instrument and equipment repairers, all other	49	56	7	14	0.93	13.17	Moderate-term on-the-job training
49-9091	Coin, vending, and amusement machine servicers and repairers	174	167	-7	-4	1.08	11.16	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
49-9092	Commercial divers	50	66	16	32	0.80	11.05	Moderate-term on-the-job training
49-9093	Fabric menders, except garment	47	63	16	34	0.80	10.57	Moderate-term on-the-job training
49-9094	Locksmiths and safe repairers	112	137	25	22	1.18	19.45	Moderate-term on-the-job training
49-9095	Manufactured building and mobile home installers	28	33	5	18	0.88	16.87	Moderate-term on-the-job training
49-9096	Riggers	17	18	1	6	0.56	18.20	Short-term on-the-job training
49-9097	Signal and track switch repairers	57	70	13	23	0.83	14.76	Moderate-term on-the-job training
49-9098	Helpers--Installation, maintenance, and repair workers	668	748	80	12	1.71	9.80	Short-term on-the-job training
49-9099	Installation, maintenance, and repair workers, all other	381	435	54	14	1.03	15.58	Moderate-term on-the-job training
51-1011	First-line supervisors/managers of production and operating workers	1,477	1,627	150	10	0.86	26.54	Work experience in a related field
51-2011	Aircraft structure, surfaces, rigging, and systems assemblers	18	18	0	0	0.27	19.35	Long-term on-the-job training
51-2021	Coil winders, tapers, and finishers	48	49	1	2	0.88	20.56	Short-term on-the-job training
51-2022	Electrical and electronic equipment assemblers	403	394	-9	-2	0.78	15.49	Short-term on-the-job training
51-2023	Electromechanical equipment assemblers	50	57	7	14	0.35	16.14	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-2031	Engine and other machine assemblers	234	224	-10	-4	2.19	14.18	Short-term on-the-job training
51-2041	Structural metal fabricators and fitters	203	215	12	6	0.83	15.12	Moderate-term on-the-job training
51-2091	Fiberglass laminators and fabricators	192	286	94	49	1.97	20.28	Moderate-term on-the-job training
51-2092	Team assemblers	3,743	4,161	418	11	1.23	12.84	Moderate-term on-the-job training
51-2093	Timing device assemblers, adjusters, and calibrators	14	17	3	21	0.57	87.51	Moderate-term on-the-job training
51-2099	Assemblers and fabricators, all other	565	610	45	8	0.79	12.21	Moderate-term on-the-job training
51-3011	Bakers	165	201	36	22	0.46	14.62	Long-term on-the-job training
51-3021	Butchers and meat cutters	136	154	18	13	0.43	21.05	Long-term on-the-job training
51-3022	Meat, poultry, and fish cutters and trimmers	610	743	133	22	1.78	8.72	Short-term on-the-job training
51-3023	Slaughterers and meat packers	232	284	52	22	0.80	11.77	Moderate-term on-the-job training
51-3092	Food batchmakers	135	174	39	29	0.60	10.71	Short-term on-the-job training
51-3093	Food cooking machine operators and tenders	69	74	5	7	0.66	10.63	Short-term on-the-job training
51-4011	Computer-controlled machine tool operators, metal and plastic	121	151	30	25	0.36	14.52	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-4012	Numerical tool and process control programmers	28	32	4	14	0.65	21.18	Long-term on-the-job training
51-4021	Extruding and drawing machine setters, operators, and tenders, metal and plastic	279	273	-6	-2	1.23	14.15	Moderate-term on-the-job training
51-4022	Forging machine setters, operators, and tenders, metal and plastic	71	60	-11	-15	0.95	16.40	Moderate-term on-the-job training
51-4023	Rolling machine setters, operators, and tenders, metal and plastic	60	57	-3	-5	0.71	16.23	Moderate-term on-the-job training
51-4031	Cutting, punching, and press machine setters, operators, and tenders, metal and plastic	844	837	-7	-1	1.29	12.29	Moderate-term on-the-job training
51-4032	Drilling and boring machine tool setters, operators, and tenders, metal and plastic	100	98	-2	-2	0.98	18.35	Moderate-term on-the-job training
51-4033	Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic	56	62	6	11	0.23	14.04	Moderate-term on-the-job training
51-4034	Lathe and turning machine tool setters, operators, and tenders, metal and plastic	47	46	-1	-2	0.29	11.35	Moderate-term on-the-job training
51-4035	Milling and planing machine setters, operators, and tenders, metal and plastic	48	47	-1	-2	0.68	12.82	Moderate-term on-the-job training
51-4041	Machinists	699	813	114	16	0.75	16.38	Long-term on-the-job training
51-4051	Metal-refining furnace operators and tenders	42	40	-2	-5	0.96	14.16	Moderate-term on-the-job training
51-4052	Pourers and casters, metal	22	20	-2	-9	0.61	17.76	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-4061	Model makers, metal and plastic	13	15	2	15	0.63	23.66	Moderate-term on-the-job training
51-4071	Foundry mold and coremakers	26	32	6	23	0.76	16.07	Moderate-term on-the-job training
51-4072	Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic	101	99	-2	-2	0.27	14.10	Moderate-term on-the-job training
51-4081	Multiple machine tool setters, operators, and tenders, metal and plastic	145	168	23	16	0.63	14.64	Moderate-term on-the-job training
51-4111	Tool and die makers	143	163	20	14	0.61	21.00	Long-term on-the-job training
51-4121	Welders, cutters, solderers, and brazers	986	1,142	156	16	1.01	16.84	Long-term on-the-job training
51-4122	Welding, soldering, and brazing machine setters, operators, and tenders	114	136	22	19	0.66	25.20	Moderate-term on-the-job training
51-4191	Heat treating equipment setters, operators, and tenders, metal and plastic	49	52	3	6	0.75	13.13	Moderate-term on-the-job training
51-4193	Plating and coating machine setters, operators, and tenders, metal and plastic	77	94	17	22	0.77	14.18	Moderate-term on-the-job training
51-4194	Tool grinders, filers, and sharpeners	27	26	-1	-4	0.60	13.89	Moderate-term on-the-job training
51-4199	Metal workers and plastic workers, all other	42	38	-4	-10	0.36	15.14	Moderate-term on-the-job training
51-5011	Bindery workers	157	142	-15	-10	0.99	10.98	Short-term on-the-job training

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51-5021	Job printers	161	157	-4	-2	1.30	13.45	Long-term on-the-job training
51-5022	Prepress technicians and workers	106	92	-14	-13	0.59	16.13	Postsecondary vocational award
51-5023	Printing machine operators	374	393	19	5	0.76	14.65	Moderate-term on-the-job training
51-6011	Laundry and dry-cleaning workers	768	810	42	5	1.18	8.42	Moderate-term on-the-job training
51-6021	Pressers, textile, garment, and related materials	236	215	-21	-9	1.26	8.52	Short-term on-the-job training
51-6031	Sewing machine operators	353	381	28	8	0.59	11.90	Moderate-term on-the-job training
51-6041	Shoe and leather workers and repairers	37	49	12	32	0.67	6.51	Long-term on-the-job training
51-6051	Sewers, hand	152	199	47	31	0.88	7.00	Short-term on-the-job training
51-6052	Tailors, dressmakers, and custom sewers	157	205	48	31	0.70	7.21	Long-term on-the-job training
51-6061	Textile bleaching and dyeing machine operators and tenders	36	20	-16	-44	0.74	9.01	Moderate-term on-the-job training
51-6062	Textile cutting machine setters, operators, and tenders	29	24	-5	-17	0.61	9.88	Moderate-term on-the-job training
51-6063	Textile knitting and weaving machine setters, operators, and tenders	158	87	-71	-45	1.62	11.82	Long-term on-the-job training
51-6064	Textile winding, twisting, and drawing out machine setters, operators, and tenders	170	105	-65	-38	1.56	11.43	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-6091	Extruding and forming machine setters, operators, and tenders, synthetic and glass fibers	64	49	-15	-23	1.50	14.85	Moderate-term on-the-job training
51-6092	Fabric and apparel patternmakers	18	15	-3	-17	0.77	12.46	Long-term on-the-job training
51-6093	Upholsterers	140	176	36	26	0.59	7.00	Long-term on-the-job training
51-6099	Textile, apparel, and furnishings workers, all other	55	45	-10	-18	0.97	14.72	Short-term on-the-job training
51-7011	Cabinetmakers and bench carpenters	261	289	28	11	0.74	11.54	Long-term on-the-job training
51-7021	Furniture finishers	48	63	15	31	0.45	7.06	Long-term on-the-job training
51-7041	Sawing machine setters, operators, and tenders, wood	41	48	7	17	0.26	16.48	Moderate-term on-the-job training
51-7042	Woodworking machine setters, operators, and tenders, except sawing	49	51	2	4	0.20	11.09	Moderate-term on-the-job training
51-7099	Woodworkers, all other	10	10	0	0	--	--	Moderate-term on-the-job training
51-8013	Power plant operators	234	284	50	21	2.76	32.51	Long-term on-the-job training
51-8021	Stationary engineers and boiler operators	152	171	19	13	1.43	22.92	Long-term on-the-job training
51-8031	Water and liquid waste treatment plant and system operators	141	169	28	20	0.55	14.84	Long-term on-the-job training
51-8091	Chemical plant and system operators	168	188	20	12	1.29	23.69	Long-term on-the-job training
51-8092	Gas plant operators	26	26	0	0	0.86	28.77	Long-term on-the-job training
51-8093	Petroleum pump system operators, refinery operators, and gaugers	15	15	0	0	0.15	24.69	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-8099	Plant and system operators, all other	11	12	1	9	0.33	22.99	Long-term on-the-job training
51-9011	Chemical equipment operators and tenders	178	196	18	10	1.44	21.45	Moderate-term on-the-job training
51-9012	Separating, filtering, clarifying, precipitating, and still machine setters, operators, and tenders	56	66	10	18	0.53	18.36	Moderate-term on-the-job training
51-9021	Crushing, grinding, and polishing machine setters, operators, and tenders	76	81	5	7	0.76	11.16	Moderate-term on-the-job training
51-9022	Grinding and polishing workers, hand	28	34	6	21	0.26	11.59	Moderate-term on-the-job training
51-9023	Mixing and blending machine setters, operators, and tenders	169	188	19	11	0.50	14.75	Moderate-term on-the-job training
51-9031	Cutters and trimmers, hand	56	62	6	11	0.78	14.46	Short-term on-the-job training
51-9032	Cutting and slicing machine setters, operators, and tenders	813	886	73	9	4.30	8.95	Moderate-term on-the-job training
51-9041	Extruding, forming, pressing, and compacting machine setters, operators, and tenders	392	415	23	6	1.96	19.92	Moderate-term on-the-job training
51-9051	Furnace, kiln, oven, drier, and kettle operators and tenders	72	79	7	10	1.10	17.50	Moderate-term on-the-job training
51-9061	Inspectors, testers, sorters, samplers, and weighers	1,558	1,624	66	4	1.31	14.90	Moderate-term on-the-job training
51-9071	Jewelers and precious stone and metal workers	122	115	-7	-6	0.96	19.75	Postsecondary vocational award

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-9081	Dental laboratory technicians	38	44	6	16	0.33	22.58	Long-term on-the-job training
51-9082	Medical appliance technicians	26	33	7	27	0.90	22.46	Long-term on-the-job training
51-9083	Ophthalmic laboratory technicians	29	31	2	7	0.38	21.14	Moderate-term on-the-job training
51-9111	Packaging and filling machine operators and tenders	1,138	1,214	76	7	1.22	12.30	Short-term on-the-job training
51-9121	Coating, painting, and spraying machine setters, operators, and tenders	228	239	11	5	0.88	14.95	Moderate-term on-the-job training
51-9122	Painters, transportation equipment	106	115	9	8	0.77	14.69	Long-term on-the-job training
51-9123	Painting, coating, and decorating workers	78	95	17	22	0.93	12.94	Short-term on-the-job training
51-9131	Photographic process workers	34	25	-9	-26	0.46	11.47	Moderate-term on-the-job training
51-9132	Photographic processing machine operators	139	90	-49	-35	1.02	9.07	Short-term on-the-job training
51-9141	Semiconductor processors	35	21	-14	-40	0.32	27.74	Associate's degree
51-9191	Cementing and gluing machine operators and tenders	37	39	2	5	0.64	12.48	Moderate-term on-the-job training
51-9192	Cleaning, washing, and metal pickling equipment operators and tenders	16	17	1	6	0.40	11.37	Moderate-term on-the-job training
51-9193	Cooling and freezing equipment operators and tenders	14	15	1	7	0.40	45.10	Moderate-term on-the-job training
51-9194	Etchers and engravers	19	22	3	16	0.56	19.29	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-9195	Molders, shapers, and casters, except metal and plastic	76	92	16	21	0.67	14.34	Moderate-term on-the-job training
51-9196	Paper goods machine setters, operators, and tenders	450	491	41	9	1.64	15.08	Moderate-term on-the-job training
51-9197	Tire builders	196	230	34	17	3.60	16.23	Moderate-term on-the-job training
51-9198	Helpers--Production workers	1,070	1,170	100	9	0.82	9.74	Short-term on-the-job training
51-9199	Production workers, all other	148	156	8	5	0.21	16.11	Moderate-term on-the-job training
53-1011	Aircraft cargo handling supervisors	16	20	4	25	0.56	33.38	Work experience in a related field
53-1021	First-line supervisors/managers of helpers, laborers, and material movers, hand	366	418	52	14	0.82	20.95	Work experience in a related field
53-1031	First-line supervisors/managers of transportation and material-moving machine and vehicle operators	475	541	66	14	0.87	22.24	Work experience in a related field
53-2011	Airline pilots, copilots, and flight engineers	60	64	4	7	0.30	42.49	Bachelor's degree
53-2012	Commercial pilots	43	45	2	5	0.47	28.59	Postsecondary vocational award
53-2021	Air traffic controllers	38	45	7	18	0.70	38.64	Long-term on-the-job training
53-3011	Ambulance drivers and attendants, except emergency medical technicians	425	594	169	40	8.37	9.60	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
53-3021	Bus drivers, transit and intercity	298	317	19	6	0.59	9.12	Moderate-term on-the-job training
53-3022	Bus drivers, school	1,125	1,337	212	19	0.96	7.69	Short-term on-the-job training
53-3031	Driver/sales workers	1,682	1,789	107	6	1.11	14.66	Short-term on-the-job training
53-3032	Truck drivers, heavy and tractor-trailer	3,727	4,235	508	14	0.81	17.74	Moderate-term on-the-job training
53-3033	Truck drivers, light or delivery services	3,302	3,852	550	17	1.16	14.54	Short-term on-the-job training
53-3041	Taxi drivers and chauffeurs	439	507	68	15	0.57	7.87	Short-term on-the-job training
53-3099	Motor vehicle operators, all other	120	133	13	11	0.68	16.91	Short-term on-the-job training
53-4019	Locomotive engineers and operators	70	70	0	0	0.73	25.02	Moderate-term on-the-job training
53-4021	Railroad brake, signal, and switch operators	30	26	-4	-13	0.60	22.42	Moderate-term on-the-job training
53-4031	Railroad conductors and yardmasters	45	48	3	7	0.61	25.89	Moderate-term on-the-job training
53-4041	Subway and streetcar operators	10	13	3	30	0.71	22.54	Moderate-term on-the-job training
53-5011	Sailors and marine oilers	14	14	0	0	0.18	10.60	Short-term on-the-job training
53-5021	Captains, mates, and pilots of water vessels	15	13	-2	-13	0.17	18.08	Work experience in a related field

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
53-6021	Parking lot attendants	89	104	15	17	0.27	9.89	Short-term on-the-job training
53-6031	Service station attendants	81	95	14	17	0.35	11.54	Short-term on-the-job training
53-6041	Traffic technicians	10	11	1	10	0.68	17.02	Short-term on-the-job training
53-6051	Transportation inspectors	18	21	3	17	0.33	29.94	Work experience in a related field
53-6099	Transportation workers, all other	36	40	4	11	0.37	10.64	Short-term on-the-job training
53-7011	Conveyor operators and tenders	153	162	9	6	1.33	12.36	Short-term on-the-job training
53-7021	Crane and tower operators	122	138	16	13	1.07	15.38	Long-term on-the-job training
53-7031	Dredge operators	19	23	4	21	0.82	20.76	Moderate-term on-the-job training
53-7032	Excavating and loading machine and dragline operators	142	170	28	20	0.78	14.51	Moderate-term on-the-job training
53-7033	Loading machine operators, underground mining	19	23	4	21	0.76	21.16	Moderate-term on-the-job training
53-7051	Industrial truck and tractor operators	1,233	1,257	24	2	0.80	13.24	Short-term on-the-job training
53-7061	Cleaners of vehicles and equipment	992	1,016	24	2	1.14	8.56	Short-term on-the-job training
53-7062	Laborers and freight, stock, and material movers, hand	7,137	7,416	279	4	1.21	9.74	Short-term on-the-job training
53-7063	Machine feeders and offbearers	288	269	-19	-7	0.80	10.98	Short-term on-the-job training
53-7064	Packers and packagers, hand	1,868	1,779	-89	-5	0.92	7.96	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
53-7071	Gas compressor and gas pumping station operators	16	23	7	44	0.24	13.46	Moderate-term on-the-job training
53-7072	Pump operators, except wellhead pumpers	18	26	8	44	0.22	13.85	Moderate-term on-the-job training
53-7073	Wellhead pumpers	12	20	8	67	0.15	11.39	Moderate-term on-the-job training
53-7081	Refuse and recyclable material collectors	570	409	-161	-28	1.61	14.53	Short-term on-the-job training
53-7121	Tank car, truck, and ship loaders	27	30	3	11	0.75	17.62	Moderate-term on-the-job training
53-7199	Material moving workers, all other	132	128	-4	-3	1.11	10.65	Moderate-term on-the-job training
		417,069	474,410	57,341	14		17.53	

at least
1.25 greater than \$17.53

Source: EMSI



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